

STATE HOUSING BOARD MEETING Department of Local Affairs Division of Housing 1313 Sherman St., Denver, CO, Room 318 Tuesday, June 9, 2009

AGENDA

11:00am -1:00pm P

Pre State Housing Board Working Session

1:00 p.m.

Convene SHB Meeting - Approval of Minutes

Sally Hatcher Teresa Duran

Deputy Director's Comments

Application Presentations

<u>Time</u>	Project#	Pro	ject Name and A	<u>pplicant</u>	Presenters		
1:15 pm	09-047	,	La Plata Coun VOA Elderly Hous	Bill Whaley & Mandy De Mayo			
1:30 p.m.	09-059	Pa	Denise Selders & Mary Roosevelt				
1:45 pm	09-061		Longmont Housing Authority Aspen Meadows Neighborhood				
2:00 pm	09-071	001014	do Coalition for th ance Uptown Lofts	Rick Hanger & John Parvensky			
Approval Process	<u>s</u>						
2:15 p.m.		09-047	09-059	09-061	09-071		
Other Business							
2:30 p.m.		Update on C	Codes Sections Res	solution	Steve Bernia		

Reasonable accommodation will be provided upon request for persons with disabilities. If you are a person with a disability who requires an accommodation to participate in this public meeting, please notify Julianna Nelson at (303) 866-5657 by June 8, 2009.

cc:	Susan Kirkpatrick	CHATS	Teresa Duran	Tony Hernandez
	Rick Hanger	Lynn Shine	Steve Bernia	State Housing Board Members

STATE HOUSING BOARD MINUTES

Colorado Division of Housing 1313 Sherman St., Denver, CO, Room 318 Tuesday, May 12, 2009

BOARD MEMBERS PRESENT: Theo Gregory, Sally Hatcher, Mike Rosser, Karen Weitkunat,

Suzanne Anarde, and Gene Lucero

BOARD MEMBERS ABSENT: None

DOH STAFF PRESENT: Susan Kirkpatrick, Kathi Williams, Teresa Duran, Rick Hanger,

Trang Van, Stephanie Troller, Shawn Wright, Melissa Stirdivant,

Stephanie Morey and Julianna Nelson.

CALL TO ORDER: Meeting was called to order by Theo Gregory at 1:00 p.m.

APPROVAL OF MINUTES: Minutes from the April meeting were approved.

DIRECTOR'S COMMENTS

Introduction of Julianna Nelson; she will replace Trang Van who was in charge of the logistics, notes, and technical guidance for the SHB meetings. Introduction of the new Asset Managers: Shawn Wright, Melissa Stirdivant and Stephine Troller.

Director Kathi Williams provided an update on Housing in the Legislative Session.

- Legislative session finished
 - HB 1213- passed it allows funds to rollover and extended funds for need assessments and foreclosure.
 - o The bill was signed in a public meeting in Arvada by the Governor on May 9, 2009.
- American Economic Recovery Act/Homeless Prevention and Rapid Re-Housing Plan
 - o May 18, 2009 HPRP plan due to HUD.
 - \$8.1 million for rental and utilities assistance for those facing homelessness and/or having a hard time stabilizing housing due to economy.
 - o 3 indicating factors used unemployment, completed foreclosures and homelessness.
 - Metro Denver Homelessness Initiative, Pikes Peak and Balance of State (the Continuum of Care around homelessness issues recognized by HUD) used to find out what percentage of the monies will be going into each.
 - RFP to manage the distribution of funds is out and the draft can be found on the DOLA website.
- Public Hearing concerning NSP II
 - o Attendance and interest is high.
 - Looking into hiring a grant writer for NSP II.
 - o All the guidelines concerning NSP II are not in yet but are expected in approximately 2

weeks.

- Posted the Request for Grant Application on website for Minority Outreach
 - o Hope to have response soon.
 - o Kathi and Mike met with the Director of the Civil Rights Division.
 - Research has been done around the Colorado Foreclosure hotline to see if minorities are using this resource.
 - Minorities have been represented through this outreach method.

APPLICATIONS REVIEWED IN MAY

Rocky Mountain Community Land Trust El Paso County Scattered Site Homeownership Program

Project Manager & Address:

Mr. Robert Koenig Jr.

Project Number: 09-065

Rocky Mountain Community Land Trust 1212 West Colorado Ave. Colorado Springs, Colorado 80904 (719) 447-9300 telephone (719) 329-0900 fax

rfkoenigjr@msn.comemail

Property Address: Various in El Paso County

Project Description: Rocky Mountain Community Land Trust (RMCLT) is requesting a grant of \$98,685 to support their on-going scattered-site homeownership program in Colorado Springs and El Paso County through September 30, 2009. These funds will be used to assist with the acquisition of nine (9) properties. Through the Community Land Trust model, the RMCLT acquires and holds title to the land permanently and grants to the homeowner use of the land investment via a 99-year land lease that can be renewed for an additional 99 years. The RMCLT connects with potential homebuyers through the Realtor community, the City of Colorado Springs acquisition/rehabilitation program, and new homebuilders.

Staff Recommendation: Full Funding Date of Meeting: May 12, 2009

Anarde	Full Funding	Lucero	Full Funding
Gregory	Full Funding	Rosser	Full Funding
Hatcher	Full Funding	Weitkunat	Full Funding

The Board approved Full Funding for this project.

OTHER BUSINESS

• Foreclosure Report/Update – Ryan McMaken

- Number of completed foreclosures has declined.
- o Number of opened foreclosures has increased.
- o If unemployment continues to rise, foreclosures may increase.
- o Foreclosure filings mean that a family/individual has become 3 months delinquent and in default.

• Codes Update – Steve Bernia

- o Final rule is still unavailable a consensus is still trying to be found within the industry.
- o Half prefer time period after 65% of state and local Jurisdiction.
- An option to adopt code of 2006 & 2009.
- o Mold has become a huge issue. Bigger manufactures are producing indoors and should be fine.
- o Alternative construction- significant work in the field is being done to make the homes safe and inhabitable. Manufacturers want to build and then ship to the work site.
- o Looking at Pennsylvania's model.
- o Would like to have issues resolved in the next couple of weeks and move forward.
- o Can accept code with amendments. Amendments must be published with the rule in order to be adopted.

Funding cycles update- Rick Hanger

- o April started new cycles CHDO reviewed internally.
- o May is the first Rental Development round- 7 applications received.
- The question was posed as to whether the Board wanted applicants who received "No Funding" to come forward.
- Board would like a summary of how staff determines recommendation- matrixexplanation of why recommendation was made.
- o Time consuming issue that will be done in a pre-meeting discussion & lunch at June's board meeting.

Name: Volunteers of America (VOA)/La Plata County Regional Housing Alliance (RHA)/City of

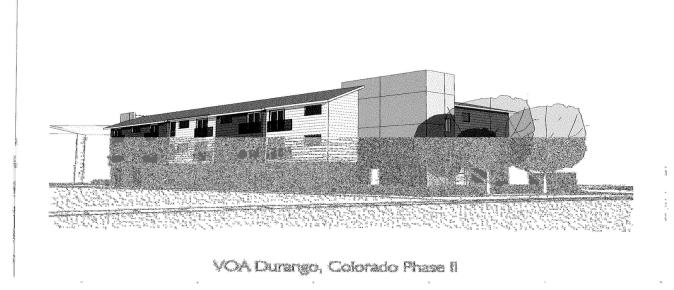
Durango

Project Number: 09-047 VOA/Elderly Housing II 3160A East Animas Village Dr., Durango,

CO 81301

Project Manager & Address: Mandy De Mayo De Mayo Associates

4002 Pete's Path Austin, TX 78731 (512) 454-1444 Fax (512) 454-1112 mandy@demayoassociates.com



Project Description: Volunteers of America, The La Plata County RHA, and the City of Durango are requesting a \$256,768 grant to construct 25 units of low-income elderly rental apartments in the City of Durango. The three-story structure will be funded primarily with a HUD 202 Capital Advance which operates as a 40 year loan which is forgiven at the end of the term and requires no payment. HUD 202 funds have been maximized and the project requires CDOH funding to fill the gap. The building will contain 24 one-bedroom 1 bath apartments which will be supplemented with a Project Rental assistance Contract from the HUD 202 program that will ensure that no resident pays more than 30% of their income in rent. Qualifying tenants will all be at or below 50% of Area Median Income. One two-bedroom unit will also be constructed to provide residence for an on-site manager. The development will be located on .98 acres adjacent to the phase I Cedar View Apartments, within two miles of the Durango Senior Center, and on a public transportation route.

Unit Type	Unit #	Beneficiaries' Income
Affordable Units (24) 1BR	24	≤ 50% of AMI (\$23,150 - \$26,500)
<u>Manager's Unit</u> (1) 2BR	1	
<u>Total Units</u>	25	

PROGRAM BUDGET

Project Activities	Total Project Cost	State Funds Requested	Other Funds	Source	Status
Land Acquisition, MCI	\$100,000		\$100,000	HUD	Committed
Appr, Mkt. Study, Survey,	\$35,993		\$18,800	HUD	Committed
Soils, Env. MCI			\$17,193	VOA	Committed
Bldg. Permit, Tap Fees, Impact Fees	\$156,456		\$94,006	City of Durango	Committed
impact rees			\$62,450	HUD	Committed
On-Site Infrastructure	\$307,149	\$256,768	\$50,381	HUD 202	Committed
Construction	\$2,761,349		\$2,761,349	HUD 202	Committed
Contingency	\$108,554		\$108,554	HUD 202	Committed
Architect, Engineering	\$257,259		\$257,259	HUD 202	Committed
Const. Interest, Fees, Taxes, Ins.	\$27,224		\$27,224	HUD 202	Committed
Permanent Financing, Legal Costs	\$45,500		\$45,500	HUD 202	Committed
Developer's Fee	\$162,000		\$162,000	HUD 202	Committed
Marketing	\$7,462		\$7,462	HUD 202	Committed
Totals	\$3,968,946	\$256,768	\$3,712,178		

PROJECT ASSESSMENT FOR Rental New Construction

Criteria		Project Data			DOH Range
Building Cost					
Cost/Unit/Sq. Ft.	\$158,758	/Unit	\$169	/SF	\$135 to \$205
Hard Cost/Unit/Sq. Ft.	\$133,340	/Unit	\$142	/SF	\$105 to \$160
Soft Cost/Unit/Sq. Ft.	\$21,418	/Unit	\$23	/SF	\$25 to \$40
Land Cost/unit	\$4,000	/Unit			\$10,000 to \$18,000
Hard/Soft Cost	86:14	Hard		Soft	
Cost Effectiveness Rating					
DOH subsidy/unit	\$10,699				\$4,000 to \$10,000
Annual Cost/Person & Rating		5	50	years	1 to 10 Scale
Externality Rating		8			1 to 10 Scale
Rent Savings Rating		6	34%		1 to 10 Scale
Financial Leveraging Rating		10	1:14		1 to 10 Scale

Composite Score	29	1 to 40 Scale
Operating Cost		
PUPA	\$5,270	\$3,700 to \$4,700
Annual Replacement Reserve	\$250	\$300 (\$250 for seniors)
Debt Coverage Ratio	N/A	1.10 to 1.20
Capitalized Operating Reserve	\$17,193	4 months debt & operating costs
Financial Commitments		
Terms of Primary Financing	N/A 0 years	
P.V. Tax Credits	N/A	\$.75 to .85
Other Criteria		·
Fully Accessible Units	2 /5 %	5% of Units Encouraged
Visitable Units	25 /100 %, plus all common facilities	All units Encouraged
Energy-Efficiency Standard	HERS Rating 80	CDOH Energy Standards Policy
Water Efficient Landscape	Yes	Denver Water Board Recommendation
30% AMI Units	24/ 100 %	5% of Units Encouraged
CDOH Funding Eligibility	HOME, CDBG, HDG	
Action Plan Priority	Strategies 2 and 7	CDOH Action Plan Priority
Minimum Application Criteria	Yes	CDOH Application Minimum Criteria Policy
Housing Needs Assessment Supports Project	Yes	Local Housing Needs Assessment

Comments:

Management Capacity

Pro: VOANS is the development and management arm for Volunteers of America which also includes a Colorado chapter. VOANS currently owns and operates 4,000 units of affordable multifamily housing. They have previously received CDOH funds to build independent living for seniors in two locations in Montrose and at the adjacent Cedar View in Durango. The RHA is sponsoring the project which is identified as a part of the implementation strategy following the needs assessment for La Plata County. The City of Durango with the assistance of VOA/Durango, is passing CDBG funds through to VOANS for CDBG eligible costs. The City has CDBG management experience in the previous VOA/Durango Shelter project, similarly sponsored by the RHA as part of the strategic plan.

Con: None.

Public/Private Commitment

Pro: The City of Durango, which does not have entitlement status to receive CDBG or HOME funds, is waiving \$94,006 in tap fees and land use fees. As part of the HUD 202 process, VOANS has made a \$17,193 capital investment that will remain in the project funding to cover any operating deficits.

Con: None.

Market Demand

Pro: The La Plata County needs assessment indicated an immediate need for 255 rental units affordable to seniors at or below 50% AMI. Of 150 units of low-income senior housing in

Durango, occupancy is 100% with a one year waiting list for the adjacent Cedar View containing 30 units. Only 48 new units of new affordable senior rental housing have been built in this market since 2000. Vacancy levels have been around three percent for several years, with vacancy in subsidized projects at less than two percent.

Con: None

Explain Variances from ranges – Construction costs are high due to the location, which requires transportation costs to the mountain region, and high labor costs due to competition from neighboring resort communities. High hard costs reflect the higher cost of one bedroom units on a per square foot basis. HUD 202 projects cannot borrow additional funds to finance the project.

Projects funded in La Plata County in the last year: HSSW CHDO operating \$42,563

County Area Median Income: \$66,200

Staff Recommendation: Full Funding

Date of Meeting: June 9, 2009

Anarde	Lucero	
Gregory	Rosser	
Hatcher	Weitkunat	

COLORADO DIVISION OF HOUSING * HOUSING DEVELOPMENT ANALYSIS SPREADSHEET

Project Name: Durango VOA Elderly II Spreadsheet directions are to the right --->

Date: 6/2/2009 PAGE #1

Applicant: City of Durango Operating Proforma

Spreadsheet Version: Final Required for Project Applications

STABILIZE	ED FIRST Y	TABILIZED FIRST YEAR INCOME EXPENSES						
	% AMI	#of units	Sq. Ft.	Monthly Rent	Total Annual Rent	Administrative Expenses		
	50%	24	537	510	146,880	Management Fee	14,841	10.10%
		1	752	0	0	On-site Personnel Payroll	24,088	FTE
					0	Health Ins. & Benefits	5,845	
					0	Legal & Accounting		
					0	Advertising	500	
					0	Office Supplies		
					0	Telephone		
					0	Audit		
					0	Other		
						Total Administrative Expenses	45,274	30.82%
						Operating Expenses		
					0	Utilities (owner paid)	28,035	
					0	Trash Removal	2,275	
					0	Fire & Liability Insurance	15,500	
					0	Other	14,800	
						Total Operating Expenses	60,610	
	Total units	25	Tota	al Rent Income	146,880	Maintenance		
	Total sq ft	13,640				Maintenance	2,200	
				arking Income		Repairs	8,475	
			L	aundry Income		Grounds (inc. snow removal)	1,200	
				Other Income	4.40.000	Other	44.0==	
			 	Total Income	· ·	Total Maintenance	11,875	
	Vac. Rate	0.05		Less Vacancy	· · · · · · · · · · · · · · · · · · ·	Real Estate Taxes		
			Effective (Gross Income	139,536	Operating Reserve		unit avg.= 559
						Replacement Reserve		unit avg.= 0
			DEBT SERVIC			TOTAL ANNUAL EXPENSES	131,745	
				1st Mortgage		NET OPERATING INCOME	7,791	
				2nd Mortgage	0	P.U.P.A. Expenses *	5,270	
				3rd Mortgage	0	* P.U.P.A = Per Unit Per Ann	um Expenses	i
			TOTAL DEBT		0			
	BEP	89.70%	Poss D	/S @ 1.1 DCR	7,083	*Note:		
BEP = Bre	ak Even Poi	nt	Project Debt C	overage Ratio	#DIV/0!			
Door D/C /	@ 4 4 DCD	Dogo:blo [John Comico of	o 1 1 Dobt Co	vorese Detie	•		

Name: Thistle Communities – Parkville Apts. Rehab Project Number: 09-059

Project Manager & Address: Mary D. Roosevelt

CEO

Thistle Communities 1845 Folsom Street Boulder, CO 80302

Telephone: 303-443-0007, Ext. 113

Fax: 303-443-0098

Email: mroosevelt@thistlecommunities.org

Project Photo:



Project Address: 1050 16th Street, Longmont, Colorado 80501

Project Description: Thistle Communities is requesting a grant of \$40,000 for the rehabilitation of the Parkville Apartments in Longmont, Boulder County. Parkville is a garden-style community built in 1978 consisting of 6 buildings containing 45 1-bedroom and 30 2-bedroom units affordable to households at or below 50% AMI and 1 2-bedroom unit at market rate for a total of 76 units. CDOH provided an HDG grant of \$200,000 to assist with acquisition of the property in 1999. In 2004, Thistle completed a portfolio bond refinancing for the property and completed Phase 1 of a rehabilitation plan which included new roofing, insulation, painting and some HVAC system rehab. CDOH did not provide additional funds at that time. This request is for Phase 2 of the rehab plan and will consist of additional HVAC replacement, fencing, parking lot replacement and lighting repairs. These repairs are necessary to preserve the 75 permanently affordable rental units that serve very low-income families.

AFFORDABILITY

Type of Units	# of Units	Income of Beneficiaries (4-person households in Boulder)
CDOH HOME-Assisted Units (1) 1BR	1	≤ 50% of AMI (\$44,550)
Other Affordable Units (44) 1BR,(30) 2BR	74	≤ 50% of AMI (\$44,550)
Market Rate Units (1) 2BR	1	Unrestricted
Total Units	76	

PROJECT BUDGET

Project Activities	Total Project Cost	State Funds Requested	Other Funds	Source	Status
Existing Buildings and Land Value	5,247,800		53,000	Colorado Division of Housing Grant City of Longmont Affordable Housing Fund Loan Bond Financing Thistle Equity	All Previously Funded
Phase I Rehabilitation	150,000		150,000	City of Longmont 2004 CDBG Grant	Previously Funded
Bath Fans / Ventilation	40,000		40,000	City of Longmont 2009 CDBG Grant	Committed
Grade & Repave West Parking Lot	43,000	40,000	3,000	Thistle Replacement Reserves	Committed
Parking Lot Lighting	4,000		4,000	Thistle Replacement Reserves	Funds permitting
Fence for Pool	16,000		16,000	Thistle Replacement Reserves	Funds permitting
Replace 4 Boilers & Sidearm Water Heaters	128,000		128,000	Governor's Energy Office	Pending
Project Management	2,310		2,310	Thistle	Committed
Totals	5,418,110	40,000	5,441,110		

PROJECT ASSESSMENT FOR Rental Rehab

Criteria	P	Project Data			DOH Range
Building Cost					
Cost/Unit/Sq. Ft.	\$72,120	/Unit	\$107	/SF	\$100 to \$140
Hard Cost/Unit/Sq. Ft.	\$72,089	/Unit	\$107	/SF	\$90 to \$120
Soft Cost/Unit/Sq. Ft.	\$ 30	/Unit	\$0	/SF	\$10 to \$20
Hard/Soft Cost	100%	Hard	0%	Soft	
Cost Effectiveness Rating					
DOH subsidy/unit	\$526				\$2,000 to \$10,000
Annual Cost/Person Rating	\$854	7	40	yrs	1 to 10 Scale
Externality Rating		6			1 to 10 Scale
Rent Savings Rating		10			1 to 10 Scale
Financial Leveraging Rating		10			1 to 10 Scale
Composite Score		33			1 to 40 Scale
Operating Cost			•		
PUPA	\$3,832	2			\$3,700 to \$4,700
Annual Replacement Reserve	\$300)			\$300
Debt Coverage Ratio	1.10)			1.10 to 1.20
Capitalized Operating Reserve	()			4 months debt & operating costs
Financial Commitments					
Terms of Primary Financing	5.43%	15	years		Bond Financing
P.V. Tax Credits	n/a				\$.75 to .85
Other Criteria					
Fully Accessible Units	None planned				5% of Units Encouraged
Visitable Units	29 ground floor	units			All units Encouraged
Energy-Efficiency Standard	New boilers, wa are all Energy S			d bath fans	CDOH Energy Standards Policy
Water Efficient Landscape	Existing landsca	aping			Denver Water Board Recommendation
30% AMI Units	None				5% of Units Encouraged
DOH requirements					
Priority	High - Preserva Affordable Ren			5	CDOH Action Plan Goals
CDOH Funding Eligibility	HOME, HDG				
Minimum Application Criteria	Yes				CDOH Application Minimum Criteria Policy
Housing Needs Assessment Supports Project	Yes – Boulder O Assessment con	-	-		Local Housing Needs Assessment

Comments:

• Management Capacity

Pro:

- 1. Thistle Communities (TC) is a 501(c)(3) non-profit CHDO organization serving Boulder and Adams Counties. Thistle was incorporated in 1985. In 2002, Thistle was chartered as a NeighborWorks America organization. Thistle currently owns and manages 785 rental units in Boulder, Longmont, and Thornton. The Longmont rental portfolio contains a total of 226 units, of which 76 are located at Parkville Apartments. Thistle also manages 215 homes in its Community Land Trust portfolio.
- 2. Thistle has recently completed the renovation of 94 rental units at the historic Cannery Apartments in Longmont and the renovation of 70 rental units at the Fairways Apartments in Boulder.
- 3. Mary Roosevelt, CEO of Thistle Communities, has made significant changes in the operation of the organization in the past two years. She has reduced operating costs by 21%. The organization's primary focus is on rental portfolio stabilization and preservation rather than growth and development.

Con:

1. Thistle's 2008 audited financial statement states that the organization has "thin liquidity" and that "the financial statements continue to be prepared on the going concern basis."

• Public/Private Commitment

Pro:

- 1. When Thistle acquired Parkville in 1999, it received a \$53,000 Affordable Housing Loan from the City of Longmont and a \$200,000 HDG grant from CDOH. In 2003, Parkville received a \$150,000 CDBG grant from the City of Longmont for Phase 1 of the Rehabilitation Plan. In 2004, Thistle refinanced the property with a portfolio bond loan with US Bank at 5.43% interest.
- 2. As part of Phase 2 of the Rehabilitation Plan, Thistle is receiving a CDBG grant of \$40,000 from the City of Longmont for bath fans and ventilation of the units. Thistle is requesting a grant from CDOH for grading and repaying of the west parking lot.
- 3. Thistle has applied for a grant of \$128,000 from the Governor's Energy Office for the replacement of 3 boilers and sidearm water heaters. This request has been committed to verbally.

Con:

1. Additional rehab work is needed at Parkville. However, the City of Longmont receives limited CDBG funds and is not able to provide greater local match for CDOH funds.

Market Demand

Pro:

- 1. The City of Longmont's Comprehensive Plan has identified the need for very low- and extremely low-income rental housing. Parkville Apartments provides 75 units of rental housing to very low-income households earning below 50% AMI.
- 2. Thistle recently surveyed the 76 existing residents at Parkville. 47% of the 68 residents responding to the survey had incomes below 30% AMI.
- 3. The Boulder/Broomfield affordable vacancy rate for 3rd Quarter 2008 was 3.9%.

Con:

1. Although the turnover rate for the property is currently 53%, this has been decreasing since the end of 2008. Overall occupancy of the property has been strong at 94 - 95%.

Explain Variances from ranges:

• None.

Other projects funded in Boulder County since 5/08:

•	4/09 – Imagine!, Longmont SmartHome, grant	\$90,000
•	3/09 – Boulder County HA, Longs Peak Energy Conservation, grant	\$250,000
•	12/08 – Thistle Community Housing, CHDO Operating, grant	\$16,000
•	5/08 – Thistle Community Housing, Cannery Apts., grant	\$750,000

Other projects funded for Thistle Communities since 5/08:

•	12/08 – Thistle Community Housing, CHDO Operating, grant	\$16,000
•	5/08 – Thistle Community Housing, Cannery Apts., grant	\$750,000

Boulder County AMI: \$89,100

Staff Recommendation: Full funding plus \$20,000 to maintain project replacement reserves

	project replacement res	Date of Meeting: 6/9/09	
Anarde		vacant	
Gregory		Rosser	
Hatcher		Lucero	
Weitkunat			

COLORADO DIVISION OF HOUSING * HOUSING DEVELOPMENT ANALYSIS SPREADSHEET

Project Name: Parkville Rehab Spreadsheet directions are to the right --->

Date: 6/1/2009 PAGE #1

Applicant: Thistle Communities Operating Proforma

Spreadsheet Version: SHB Packet Required for Project Applications

STABILIZ	STABILIZED FIRST YEAR INCOME EXPENSES							
	% AMI	#of units	Sq. Ft.	Monthly Rent	Total Annual Rent	Administrative Expenses		
1bd,1ba	50%	15		505	90,900	Management Fee	24,446	4.73%
1bd,1ba	50%	15		510	91,800	On-site Personnel Payroll	94,045	3.50% FTE
1bd,1ba	50%	15		530	95,400	Health Ins. & Benefits	8,136	
2bd,1ba	50%	10		610	73,200		7,950	
2bd,1ba	50%	10		630	75,600		3,000	
2bd,1ba	50%	10	858	675	81,000	Office Supplies	2,225	
					0	1 010 0110110	0	
2bd,1ba	Market	1	750	750	9,000		0	
					0	Other	6,872	
					0	Total Administrative Expenses	146,674	28.38%
					0	operating Expenses		
					0	Utilities (owner paid)	42,212	
					0	1101011110111011	6,864	
					0	=	11,142	
					0	Othor		
						Total Operating Expenses	60,218	
	Total units	76	Tota	I Rent Income	516,900	Maintenance		
	Total sq ft	51,240				Maintenance	14,270	
				arking Income	0		14,400	
			La	aundry Income	12,394	,	5,050	
				Other Income	43,304		1,100	{
			-	Total Income	· ·	Total Maintenance	34,820	Į!
	Vac. Rate	0.07		Less Vacancy		Real Estate Taxes	27,056	
			Effective (Gross Income	532,516	Operating Reserve		unit avg.= 0
						Replacement Reserve	22,500	unit avg.= 296
DEBT SERVICE						TOTAL ANNUAL EXPENSES	291,268	
				1st Mortgage	(214,414)	NET OPERATING INCOME	241,248	
				2nd Mortgage	(4,958)	P.U.P.A. Expenses *	3,832	
				3rd Mortgage	0	* P.U.P.A = Per Unit Per Ann	um Expenses	\$
			TOTAL DEBT		(219,372)		•	
	BEP	98.79%	Poss D	/S @ 1.1 DCR	219,316	*Note:		
BEP = Bre	eak Even Poi	nt	Project Debt C	overage Ratio	1.100			
Poss D/S	@ 11DCR -	L	Debt Service at		verage Ratio	<u>-</u>		

Poss D/S @ 1.1 DCR = Possible Debt Service at a 1.1 Debt Coverage Ratio

Name: Longmont Housing Authority

Aspen Meadows Neighborhood, Phase 2 Project Number: 09-061

Project Manager & Address: Michael Reis

Executive Director

Longmont Housing Authority

1228 Main Street Longmont, CO 80501

Telephone: 303-651-8581, Ext. 25

Fax: 303-682-2899

Email: Michael@longmontha.com

Project Photo:

ASPEN MEADOWS PHASE II

BUILDINGS E & F



FRONT ELEVATION



SIDE ELEVATION

Project Address: 50 21st Avenue, Longmont, CO 80501

Project Description: The Longmont Housing Authority (LHA) is requesting a grant of \$250,000 to assist in repayment of a loan to First Main Street Bank for the acquisition of the land for this project. LHA acquired 4 acres of land in 1999 and sold the western 2 acres to Aspen Meadows Associates, LLLP for a senior housing complex. The remaining 2 acres is the site for the Aspen Meadows Neighborhood (AMN), Phase 2 (subject project), which is located at 50 21st Avenue, in northeast Longmont, Boulder County. AMN is a townhome-style new construction project consisting of 28 units of rental housing, two 2-bedroom units at 30% AMI, eighteen 2-bedroom units at 40% AMI, six 3-bedroom units at 40% AMI, and two 4-bedroom units at 40% AMI. This project received 9% Low Income Housing Tax Credits from CHFA in Round 1 of 2009. LHA will project base twelve Section 8 vouchers at this property.

AFFORDABILITY

Type of Units	# of Units	Income of Beneficiaries (4-person households in Boulder)
CDOH HOME-Assisted Units (2) 2BR	2	≤ 40% of AMI (\$35,640)
Other Affordable Units (2) 2BR (16) 2BR, (6) 3BR, (2) 4BR	2 24	≤ 30% of AMI (\$26,730) ≤ 40% of AMI (\$35,640)
<u>Total Units</u>	<u>28</u>	

PROJECT BUDGET

		KOJECI BUL	GET		
Project Activities	Total Project Cost	State Funds Requested	Other Funds	Source	Status
Land Acquisition Costs	\$347,500	\$250,000	\$97,500	St. John's Foundation (SJF)	Committed
Building Permits, Tap Fees	\$452,085			City of Longmont (COL) Fee Reduction	Committed
			\$234,029	1stBank Loan	Committed
Infrastructure Costs	\$150,000		\$50,000	Federal Home Loan Bank AHP	Pending
			\$75,000	COL HOME grant (2009)	Committed
			\$25,000	COL Áffordable Housing Funds	Committed
Construction Costs	\$4,389,964		\$3,817,764	1stBank Loan & LIHTC Equity	Committed
				COL HOME grant (2008)	Committed
			\$300,000	Longmont Housing Authority (LHA) Equity	Committed
			\$172,200	Longmont Housing Development Corp. Loan	Committed
Contingency	\$189,411		\$189,411	1stBank Loan	Committed
Architectural & Engineering	\$285,464		\$285,464	SJF	Committed
Interim Costs	\$340,752		\$117,036 \$223,716	SJF 1stBank Loan	Committed Committed
Permanent Financing Costs	\$165,200		\$165,200	LIHTC	Committed
Operating & Debt Service Reserve	\$70,000		\$70,000	LIHTC	Committed
Developer's Fee	\$663,000		\$633,000	LIHTC	Committed
Deferred Developer's Fee	\$153,000		\$153,000	LHA	Committed
Totals	\$7,206,376	\$250,000	\$6,956,376		

PROJECT ASSESSMENT FOR Rental New Construction

Criteria	ASSESSMENT	oject D	DOH Range		
Building Cost	1	oject D			Don Runge
Cost/Unit/Sq. Ft.	\$247,371	/Unit	\$205	/SF	\$135 to \$205
Hard Cost/Unit/Sq. Ft.	\$184,927	/Unit	\$147		\$105 to \$160
Soft Cost/Unit/Sq. Ft.	\$ 61,122	/Unit		/SF	\$25 to \$40
Land Cost/unit	\$ 11,321	/Unit	ΨΤΖ	/51	\$10,000 to \$18,000
Hard/Soft Cost		Hard	25%	Soft	\$10,000 to \$10,000
Cost Effectiveness Rating	73%	пага	23%	Son	
DOH subsidy/unit	\$8,929				\$4,000 to \$10,000
-			40	***	1 to 10 Scale
Annual Cost/Person & Rating	\$1,815		40	years	
Externality Rating	520/	6			1 to 10 Scale
Rent Savings Rating	53%	10			1 to 10 Scale
Financial Leveraging Rating	28				1 to 10 Scale
Composite Score		31			1 to 40 Scale
Operating Cost					
PUPA	\$4,110				\$3,700 to \$4,700
Annual Replacement Reserve	\$300				\$300 (\$250 for seniors)
Debt Coverage Ratio	1.15				1.10 to 1.20
Capitalized Operating Reserve	\$70,000	4 mos			4 months debt & operating costs
Financial Commitments					
Terms of Primary Financing	7.5% Const to Perm Loan		years	1stBank	
P.V. Tax Credits	\$.75			1stBank	\$.75 to .85
Other Criteria					
Fully Accessible Units	2 / 7%				5% of Units Encouraged
Visitable Units	3 – 6 units				All units Encouraged
Energy-Efficiency Standard	Enterprise Green CHFA Energy E				CDOH Energy Standards Policy
Water Efficient Landscape	Yes				Denver Water Board Recommendation
30% AMI Units	2 / 7%				5% of Units Encouraged
DOH requirements					
Priority	High - Increase t rental housing	he supp	ly of a	ffordable	CDOH Action Plan Goals
CDOH Funding Eligibility	HOME, HDG				
Minimum Application Criteria	Yes				CDOH Application Minimum Criteria Policy
Housing Needs Assessment Supports Project	Yes – Boulder C Assessment com	•	-	•	Local Housing Needs Assessment

Comments:

• Management Capacity

Pro:

- 1. LHA has been serving low to moderate income families and seniors in Longmont since its inception in 1975. LHA owns, is part of the partnership, or oversees LHDC units totaling 203 units in 8 properties. Hudson Properties provides property management to all units except three single family houses and the ten Briarwood units which LHA manages.
- 2. Michael Reis has been with LHA since 2003 as the Development Director, and since 2007 as the Executive Director. Prior to that, he was the Development Director for the Boulder County Housing Authority/Louisville Housing Authority for 13 years. LHA has contracted with Sarah Batt, Housing Consultant, to assist them in obtaining funding for this project. Sarah has extensive experience in working with affordable housing projects.
- 3. LHA has successfully completed several new construction projects. The Aspen Meadows Apartments (senior housing) was built on the adjoining site in 2002. The Longmont Housing Development Corporation (a non-profit subsidiary of LHA) is completing construction of the Lodge at Hover Crossing, another senior rental housing project for which CDOH provided funding.

Con: None.

• Public/Private Commitment

Pro:

- 1. The City of Longmont provided LHA with a HOME pre-development grant of \$100,000 for AMN in 2008. It also approved HOME funding of \$75,000 and an Affordable Housing Fund grant of \$25,000 in 2009 for infrastructure costs. The City has also agreed to waive approximately \$218,056 in permit and tap fees (roughly 50% of the cost) for this project according to its Fee Reduction Program for affordable housing.
- 2. LHA received a grant of \$500,000 from the St. John's Foundation for use in providing permanently affordable rental housing to families at or below 50% AMI in Longmont. LHA applied for a grant of \$150,000 from the Federal Home Loan Bank AHP on May 1, 2009. The award decision will not be made until August 2009.
- 3. AMN received an allocation of 9% Low Income Housing Tax Credits from CHFA in Round One of 2009. 1stBank of Longmont has issued a Letter of Understanding for the purchase of the tax credits based on a price of \$.75 on the dollar. LHA has paid a \$15,000 reservation fee for that commitment.

Con: None.

Market Demand

Pro:

- 1. A Market Study was prepared by Prior & Associates in January of 2009. It states that most of the existing affordable rental housing inventory targets households at 50% and 60% AMI, suggesting that households at 30% and 40% AMI are underserved. It projects a capture rate of 10.6% and 19.9% respectively. AMN's proposed 40% AMI rents are 18% to 25% lower than the surveyed weighted average market-rate rents. The study predicts full lease up of the property in approximately 4 months and once occupied, predicts a stabilized occupancy rate of 93%.
- 2. These units will be built to the Enterprise Green Communities standards and will provide Energy Star rated appliances which will reduce tenants' utility costs. Additionally, LHA will provide supportive services to AMN residents through a staff member acting as a Family Resource Coordinator. Residents will have access to the community room at the Aspen Meadows Apartments next door and will share an on-site manager.
- 3. The 3rd quarter 2008 vacancy rate for market rate units in Boulder/Broomfield County is 4.4% and for affordable units it is 3.9%.

Con: None.

Explain Variances from ranges:

• The Soft Cost/Unit/Sq. Ft. is higher than the DOH range due to the high cost of low-income tax credit projects and the small size of this project with only 28 units.

Other projects funded in Boulder County since 5/08:

•	4/09 – Imagine!, Longmont SmartHome, grant	\$90,000
•	3/09 – Boulder County HA, Longs Peak Energy Conservation, grant	\$250,000
•	12/08 – Thistle Community Housing, CHDO Operating, grant	\$16,000
•	5/08 – Thistle Community Housing, Cannery Apts., grant	\$750,000

Other projects funded for Longmont Housing Authority since 5/08:

None

Boulder County AMI: \$89,100

Staff Recommendation: Full Funding Date of Meeting: 6/9/09

Anarde	vacant	
Gregory	Rosser	
Hatcher	Lucero	
Weitkunat		

COLORADO DIVISION OF HOUSING * HOUSING DEVELOPMENT ANALYSIS SPREADSHEET

Project Name: Aspen Meadows Neighborhood Spreadsheet directions are to the right --->

Date: 6/2/2009 PAGE #1

Applicant: Longmont Housing Author Operating Proforma

Spreadsheet Version: SHB Packet Required for Project Applications

STABILIZED FIRST YEAR INCOME EXPENSES								
	% AMI	#of units	Sq. Ft.	Monthly Rent	Total Annual Rent	Administrative Expenses		
2bd/1ba	30%	2	987	510	12,240	Management Fee	11,288	4.65%
2bd/2ba	40%	6	1058	705	50,760	On-site Personnel Payroll	13,000	FTE
2bd/1ba	40%	12	1115	705	101,520	Health Ins. & Benefits	3,000	
3bd/2ba	40%	6	1400	790	56,880	Legal & Accounting	8,500	
4bd/2ba	40%	2	1500	890	21,360	Advertising	2,333	
					0		1,500	
					0		2,500	
					0	Audit		
					0			
						Total Administrative Expenses	42,121	17.35%
					0	Operating Expenses		
					0	Ctilities (Ctilies para)	35,000	
					0		3,265	
					0	Fire & Liability Insurance	5,304	
					0	Other		
						Total Operating Expenses	43,569	
	Total units	28	Tota	I Rent Income	242,760	Maintenance		
	Total sq ft	33,102				Maintenance	16,243	
				arking Income	0		2,500	
			La	aundry Income	0	O 1 O di 1 di 0 (1 1 O 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 O 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 1 O 1 O 1 1 O 1	1,500	
				Other Income	0	Extermination	750	
				Total Income	,	Total Maintenance	20,993	
	Vac. Rate	0.07		Less Vacancy	-16,993	Real Estate Taxes		
			Effective C	Gross Income	225,767	Operating Reserve	0	unit avg.= 0
						Replacement Reserve	8,400	unit avg.= 300
			DEBT SERVIC	E		TOTAL ANNUAL EXPENSES	115,083	
				1st Mortgage	(96,657)	NET OPERATING INCOME	110,684	
2nd Mortgage					0	P.U.P.A. Expenses *	4,110	
3rd Mortgage					0	* P.U.P.A = Per Unit Per Ann	um Expenses	S
TOTAL DEBT SERVICE					(96,657)			
<u>, </u>	BEP	87.22%	Poss D	/S @ 1.1 DCR	100,622	*Note:		
BEP = Bre	eak Even Poi	nt	Project Debt C	overage Ratio	1.15			
Poss D/S	@ 1.1 DCR =	L		a 1.1 Debt Co	verage Ratio	_		

Poss D/S @ 1.1 DCR = Possible Debt Service at a 1.1 Debt Coverage Ratio

Name: Renaissance Housing Development Corporation – Renaissance Uptown Lofts Apartments

Project Number: 09-071

Project Manager & Address: Mr. David Klimut

Director, Housing Development

Renaissance Housing Development Corporation

2111 Champa Street Denver, Colorado 80205 303.285.5232 telephone 303.293.2309 fax

dklimut@coloradocoalition.org

Project Photos:





Project Address: 517 East Colfax Denver, Colorado 80205

Project Description:

The Renaissance Housing Development Corporation (RHDC), a community housing development organization (CHDO) and development subsidiary of the Colorado Coalition for the Homeless (CCH), requests a grant of \$1,000,000 for the new construction of the Renaissance Uptown Lofts, a 98 unit, mixed-income, transit oriented affordable housing development located at 517 East Colfax Avenue in Denver, Colorado. The project will integrate housing provided through the Denver Housing First Collaborative and other Colorado Coalition for the Homeless (CCH) service programs to meet a variety of community needs. The Denver Housing First Collaborative is designed to create a comprehensive and integrated strategy to assist persons who are chronically homeless to move from the streets and shelters into stable, permanent housing and receive the services required to achieve greater self-sufficiency. This new construction project will incorporate several façade elements from the existing building and will include street level retail and parking elements with the residential development to be constructed above the ground floor podium structure.

AFFORDABILITY

Type of Units	# of Units	Income of Beneficiaries (4-person households in Denver Metro)
CDOH HOME-Assisted Units (1) 0BR, (7) 1BR	8	≤ 30% of AMI (\$21,500)
Other Affordable Units (2) 0BR, (33) 1BR (29) 1BR, (1) 2BR (15) 1BR,(1) 2BR (7) 1BR,(1) 2BR	35 30 16 8	≤ 30% of AMI (\$21,500) ≤ 40% of AMI (\$28,680) ≤ 50% of AMI (\$35,850) ≤ 60% of AMI (\$43,020)
Employee (1) & Market Rate Units (0) (1) 2BR	1	unrestricted
Total Units	98	

Project Budget:

Project Activities	Total Project Cost	State Funds Requested	Other Funds	Source	Status
Acquisition	\$2,200,000	-	\$1,200,000	Denver HNDS	Pending
Appraisal & Market Study	\$17,000		\$17,000	Tax Credit Equity	Committed
Architect/Engineering	\$611,504		\$611,504	Tax Credit Equity	Committed
Building Permit & Tap Fees	\$150,000		\$150,000	Tax Credit Equity	Committed
			\$800,000	Denver HNDS	Pending
			\$4,186,316	Tax Credit Equity	Committed
			\$1,500,000	First Mortgage	Pending
			\$3,963,500	CHFA ARRA (TCAP)	Pending
			\$400,000	HUD Supportive Housing	Committed
Construction	\$11,299,816		\$450,000	Federal Home Loan Bank AHP	Committed
Contingency	\$758,014		\$758,014	Tax Credit Equity	Committed
Construction Loan Expenses	\$458,750		\$458,750	Tax Credit Equity	Committed
Perm Loan Expenses	\$140,500		\$140,500	Tax Credit Equity	Committed
Operating Reserve	\$300,000		\$300,000	Tax Credit Equity	Committed
			\$882,539	Tax Credit Equity	Committed
Developers Fee	\$1,000,000		\$117,461	Deferred Fee	Committed
Other	\$931,877		\$931,877	Tax Credit Equity	Committed
Totals	\$17,867,461	\$1,000,000	\$16,867,461		

PROJECT ASSESSMENT FOR Rental New Construction

Criteria]	Project D	ata			DOH Range
Building Cost						
Cost/Unit/Sq. Ft.	\$182,321	/Unit	\$215	/SF		\$135 to \$205
Hard Cost/Unit/Sq. Ft.	\$132,404	/Unit	\$156	/SF		\$105 to \$160
Soft Cost/Unit/Sq. Ft.	\$27,468	/Unit	\$ 33	/SF		\$25 to \$40
Land Cost/unit	\$22,449	/Unit				\$10,000 to \$18,000
Hard/Soft Cost	83%	Hard	17%	Soft		
Cost Effectiveness Rating						
DOH subsidy/unit	\$10,205					\$4,000 to \$10,000
Annual Cost/Person & Rating	3		50	years		1 to 10 Scale
Externality Rating	6					1 to 10 Scale
Rent Savings Rating	4					1 to 10 Scale
Financial Leveraging Rating	10					1 to 10 Scale
Composite Score	23					1 to 40 Scale
Operating Cost						
PUPA	\$4,911					\$3,700 to \$4,700
Annual Replacement Reserve	\$300					\$300 (\$250 for seniors)
Debt Coverage Ratio	1.53					1.10 to 1.20
Capitalized Operating Reserve	6 months					4 months debt &
						operating costs
Financial Commitments						
Terms of Primary Financing						
V. Tax Credits .675 \$.75 to .85		\$.75 to .85				
Other Criteria						
Fully Accessible Units	5 / 5.1%	5 / 5.1% 5%		of Units Encouraged		
Visitable Units	98	98 All units Encouraged		l units Encouraged		
Energy-Efficiency Standard	Enterprise Green	1 -			DOH Energy Standards olicy	
Water Efficient Landscape	No Landscaping	1 61				enver Water Board commendation
30% AMI Units	43 / 44%			5%	of Units Encouraged	
DOH requirements						
Priority	High - Increase Supply of Rental Housing		Cl	DOH Action Plan Goals		
CDOH Funding Eligibility	HOME, HDG					
Minimum Application Criteria				CDOH Application Minimum Criteria Policy		
Housing Needs Assessment Supports Project	Yes				Local Housing Needs Assessment	

Comments:

• Management Capacity *Pro:*

- 1. RHDC and CCH have developed over 1,300 units of transitional and supportive affordable housing in the Denver Metro area and have assisted statewide in providing supportive housing services.
- 2. CCH currently operates numerous programs with demonstrated success including health care; mental health services; substance abuse treatment and counseling; tenant based rental assistance, affordable housing development; case management; emergency services; early childhood education and childcare; benefits advocacy; transportation; and vocational services. These programs, designed to create conduits to self-sufficiency, provide a continuum of services for homeless and low-income, at-risk individuals and families while filling gaps in the local infrastructure.

Con:

- 1. This application was accepted by DOLA/CDOH after the 1st of the month (application documents dated May 20, 2009) and did not include the supporting documentation.
- 2. DOLA/CDOH asset management staff completed a monitoring of the CCH operated housing voucher program in May 2009 and found outstanding management and program findings. The monitoring letter for this visit has not been completed to date.

• Public/Private Commitment *Pro:*

- 1. The Denver Housing Authority has committed 50 Section 8, Project-based Vouchers to this project and the project has also received a HUD Supportive Housing Grant for project costs and long-term operating costs.
- 2. This project is a partnership with the Denver Housing First Collaborative that includes the Colorado Coalition for the Homeless, Mental Health Corporation of Colorado, Arapahoe House, Denver Health, Denver Department of Human Services and the Denver VA Medical Center.

Con:

1. Approximately \$6,400,000 (or 36% of the budget) from various funding sources is still pending at this time from various sources. These financial commitments are expected to be finalized within 90 days of the State Housing Board approval.

• Market Demand

Pro:

- 1. According to the Gaps Analysis undertaken by the Metro Denver Homeless Initiative in 2006 there was an unmet "point in time" need for permanent and transitional housing for 794 homeless individuals, including 513 chronically homeless individuals.
- 2. There is a significant waiting list for public and assisted housing in Denver with an average waiting list time of over 2 years for service enriched housing and housing vouchers.

Con:

- 1. The marketability of the retail space in this project (approximately 7,700 square feet) will be challenging in the current market for space along East Colfax. CCH is considering using this space for their own uses to minimize the market risks for this component of the project. No income from the retail space is projected in the operating budget.
- 2. The 3rd quarter 2008 Vacancy Survey for deed-restricted units in Denver County found a 4.3% vacancy rate and the 1st quarter 2009 Vacancy Survey for the overall rental in Denver County found an 8.6% vacancy rate.

Explain Variances from ranges:

- The PUPA is above the range due to the amount of on-site staffing necessary for successful property management.
- The Debt Coverage Ratio is 1.53 in year one of the project budget analysis and is above the CDOH range. This year one debt coverage ratio is necessary to maintain at least a 1.15 debt coverage ratio in year 15 of operations as required by the tax credit program
- Total cost per square foot is above the CDOH range and is due primarily to the cost of the land (and in-fill site) and the construction techniques necessary to meet on-site parking requirements.

Other projects funded in Denver County since 5/09:

- Denver Housing Authority Park Avenue Block 4B \$705,500 grant 5/08
- Volunteers of America, Casa de Rosal \$450,000 grant 2/09
- Mercy Housing Colorado, Aromor Apartments \$567,500 grant 2/09

Other projects funded for Renaissance Housing Development Corporation since 5/09:

None.

Denver County AMI: \$71,700

Staff Recommendation: No funding at this time - review for final gap determination and project compliance

Date of Meeting: June 9, 2009

Anarde	vacant	
Gregory	Rosser	
Hatcher	Lucero	
Weitkunat		

COLORADO DIVISION OF HOUSING * HOUSING DEVELOPMENT ANALYSIS SPREADSHEET

Project Name: Renaissance Uptown Lofts Spreadsheet directions are to the right --->

Date: 4/14/2009 PAGE #1

Applicant: Renaissance HDC Operating Proforma

Spreadsheet Version: 0.1 Required for Project Applications

STABILIZED FIRST YEAR INCOME EXPENSES								
	% AMI	#of units	Sq. Ft.	Monthly Rent	Total Annual Rent	Administrative Expenses		
O Bd	30-50%	3	400	358	12,900	Management Fee	34,000	5.28%
1Bd/1Ba	30%	10	550	300	36,000		75,000	FTE
§8 1 Bd	30%	30	550	665	239,400	Health Ins. & Benefits	34,400	
1Bd/1Ba	40%	14	550	400	67,200		5,000	
§8 1 Bd	40%	15	550	665	119,700	Advertising	4,500	
2 Bd 1Ba	40%	1	740	550	6,600	Office Supplies	8,000	
1Bd/1Ba	50%	10	550	525	63,000	Telephone	3,000	
§8 1 Bd	50%	5	550	665	39,900	U	6,000	
2 Bd 1Ba	50%	1	740	600	7,200		2,000	
1Bd/1Ba	60%	7	550	525		Total Administrative Expenses	171,900	26.68%
2 Bd 1Ba	60%	1	740	700	8,400	Operating Expenses		
2 bd Empl		1	740	0	0	Utilities (owner paid)	75,000	
					0	Trash Removal	5,000	
					0		20,000	
					0	Other		
						Total Operating Expenses	100,000	
	Total units	98	Tota	al Rent Income	644,400	Maintenance		
	Total sq ft	54,210				Maintenance	100,000	
Parking Income			0	rtopano	45,000			
Laundry Income			2,400	1	6,000			
Other Income (SHP)			48,000		29,000			
Total Income			Total Maintenance	180,000				
	Vac. Rate	0.07		Less Vacancy		Real Estate Taxes	0	
			Effective (Gross Income		Operating Reserve		unit avg.= 0
						Replacement Reserve		unit avg.= 300
DEBT SERVICE				TOTAL ANNUAL EXPENSES	481,300			
1st Mortgage				NET OPERATING INCOME	164,864			
2nd Mortgage			0	P.U.P.A. Expenses *	4,911			
3rd Mortgage			0	* P.U.P.A = Per Unit Per Ann	um Expenses	3		
TOTAL DEBT SERVICE				SERVICE	(107,919)			
	BEP	91.44%	Poss D	/S @ 1.1 DCR	149,876	*Note:		
BEP = Break Even Point Project Debt Coverage Ratio 1.528								
Poss D/S	@ 1.1 DCR =	<u> 12</u>		a 1.1 Debt Cov	/erage Ratio	2		

Poss D/S @ 1.1 DCR = Possible Debt Service at a 1.1 Debt Coverage Ratio

101	RESOLUTION #34
102	FACTORY BUILT HOUSING
103	
104	
105	BE IT RESOLVED BY THE STATE HOUSING BOARD OF THE STATE OF
106	COLORADO;
107	
108	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the State Housing Board
109	of the State of Colorado (the "Housing Board") repeals and readopts Resolution #34 Factory
110	Built Housing; and
111	
112	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
113	adopts the nationally recognized code as cited in SCHEDULE "B" as the "Colorado Construction
114	Safety Code for Factory Built Housing", and
115	
116	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
117	states the basis and purpose of these rule changes is to update the current minimum construction
118	and safety code for "Factory Built Housing" manufactured, sold, offered for sale, or occupied in
119	Colorado; and
120 121	THAT DUDGUANT TO \$24.22.2201 at sag C.D.C. as amended, the Heyeing Doord
121	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board establishes standards, to the extent allowed by the state constitution, Article 50 of the "State
123	Personnel System Act', and the rules promulgated by the Personnel Board, for private inspection
123	and certification entities to perform the Colorado Division of Housing's certification and
125	inspection of in-state and out-of-state Factory Built Housing; and
126	inspection of in-state and out-or-state ractory Bunt Housing, and
127	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
128	states that "Factory Built Housing" manufacturers shall have the option to contract with the
129	Colorado Division of Housing or an authorized inspection agency to perform inspection and
130	certification functions; and
131	
132	The Housing Board states that these rules do not include later amendments to or editions
133	of the nationally recognized code; and
134	
135	The Housing Board repeals and readopts these rules and regulations to be administered
136	and enforced by the Colorado Division of Housing (the Division of Housing).
137	

RULES AND REGULATIONS

Section 1: SCOPE

Every Factory-Built Housing Unit manufactured after the effective date of these regulations that is manufactured, sold, offered for sale, or occupied in this state must display an insignia issued by the Division of Housing certifying that the unit is constructed in compliance with the standards adopted in schedule "B" which is incorporated herein and made a part of these Rules and Regulations by reference, and all other requirements set forth by this resolution.

The Housing Board states that the Program Manager, Housing Technology and Standards Section, Colorado Division of Housing, 1313 Sherman Street, Room 321, Denver, Colorado 80203, will provide information regarding how the codes adopted in Schedule "B" may be obtained or examined. Homes constructed under Schedule "B" do not include units built to the Federal Manufactured Home Construction and Safety Standards (HUD Standards). Incorporated material may also be examined at any state publications depository library.

Section 2: DEFINITIONS

"ADMINISTRATIVE AGENCY" is the Colorado Division of Housing. The Division of Housing is the state agency responsible for enforcing the Factory-Built Housing Construction Statutes, Rules, and Regulations.

"ALTERNATIVE CONSTRUCTION (AC)" is specific additional construction and/or modification of the factory-built structure that directly affects the life, health, safety, and/or habitability of the structure and is not covered by the factory-built or installation certification insignias and requires inspection(s) to verify code compliance.

"AUTHORIZED INSPECTION AGENCY" means the Division of Housing or any state agency, firm, corporation or entity approved by the Division of Housing to conduct production inspections, to evaluate the manufacturer's quality control procedures, approve manufacturer's engineering manuals, approve factory built model construction plans, and/or factory-built installation instructions. Authorized Inspection Agencies will be "Registered" based on qualifications and "Certified" based on qualifications and performance.

"CONSTRUCTION, CLOSED" means any building, building component, assembly, or system manufactured in such a manner that all concealed parts or processes of manufacture cannot be inspected before installation at the building site without disassembly, damage, or destruction.

"CONSTRUCTION, OPEN" means any building, building component, assembly, or system manufactured in such a manner that all concealed parts or processes of manufacture can be

readily inspected at the building site without disassembly, damage, or destruction. Local jurisdictions have the approval authority for Open Construction.

"FACTORY-BUILT HOUSING" is a unit or component built in compliance to the applicable of codes listed in Schedule "B". These units are designed primarily for residential occupancy, either permanent or temporary (as determined by the local building department), which is wholly or in substantial part, made, fabricated, formed or assembled as Closed Construction in a manufacturing facility for installation, or assembly and installation, on permanent or temporary foundations at the building site.

"INSIGNIA" means a seal, label or tag issued by the Division of Housing to indicate compliance in the manufacture of a unit with the regulations established by the Housing Board when affixed to a Unit in conformance with this Resolution.

"INTERIM CHANGE" is a change made between the approval date and the expiration date.

"MANUFACTURER" means any person who constructs or assembles a manufactured residential or nonresidential structure in a factory or other off-site location. Manufacturers will be "Registered" based on the qualifications of quality control and "Certified" based on the performance of quality control.

"MODEL" is a specific design of factory-built units designed by the manufacturer, which is based on size, floor plan, method of construction, location arrangement and sizing of plumbing, mechanical or electrical equipment and systems therein in accordance with plans submitted to the Division of Housing.

"OCCUPIED" means a factory-built structure designed, built, modified, and/or used with the intent for individuals to enter.

"PRODUCTION INSPECTION" means the evaluation of the ability of the manufacturing facility to follow approved plans, standards, codes and quality control procedures during continuing production.

"PROHIBITED SALE NOTICE" means a printed notification issued by the Division of Housing
 for a structure providing that the unit may not be sold or offered for sale because of
 nonconformance(s) with §24-32-Part 33 C.R.S., as amended and these regulations.

- 216 "QUALITY CONTROL PROCEDURES" means procedures prepared by a manufacturer for each of its manufacturing facilities and approved by the Division of Housing or Authorized
- 218 Inspection Agency describing the method that the manufacturer uses to assure units produced by

219 that manufacturer are in conformance with the applicable standards, codes, quality control 220 procedures and approved plans. 221 222 "A RED TAG NOTICE" is a physical identification that a particular unit has a life threatening 223 violation as set forth in §24-32-3302 (14). Units with life threatening deviations shall not be sold 224 or offered for sale in Colorado. 225 226 "UNIT" means a factory-built house that shall comply with these rules and regulations 227 228 **Section 3:** PROGRAM PARTICIPANTS 229 230 Other States 231 232 This program is open on a voluntary basis to all states with statutory authority to regulate 233 the design and construction of Factory Built Housing covered by this Division of 234 Housing Resolution. 235 236 Each state that wishes to participate in this program recognizes that they must enter into a memorandum of understanding with Colorado to establish mutual recognition and 237 238 acceptance of codes and inspections. Areas of agreement include: 239 240 ? Acceptance of construction codes that are adopted by the State of Colorado 241 Housing Board for Factory Built Housing units sold into or offered for sale in Colorado. (See Schedule "B" in this Resolution). 242 243 244 ? Acceptance of the design evaluation and approval performed by the Division of 245 Housing or an authorized Inspection Agency for units sold into or offered for sale in Colorado. 246 247 248 ? Performance of plant certifications and other inspection requirements. Routine 249 inspections include performing inspections of at least one (1) unit in each 250 phase of manufacturing and performing a minimum of a rough, final and other inspections and/or tests (as required in Schedule "B") when a 251 252 production line process is not being utilized. Also to place the manufacturer on a higher frequency of inspection when it is unable to conform, on a 253 254 continuing basis, to approved quality control procedures and or approved plans and standards. 255 256 257 ? Evaluation, at the manufacturing facility, of code compliance problems resulting 258 from consumer complaints on labeled Colorado units; work with the manufacturer(s) in resolving such complaints by adequately following-up 259

260	and assisting them in correcting the complaint issue(s), and their production
261	and/or inspection process.
262	
263	? Provide sixty (60) days notice before withdrawing from participation in the
264	program, thereby allowing a manufacturer sufficient time to obtain a new
265	Authorized Inspection Agency.
266	
267	PARTICIPATING STATES OPERATING UNDER AN EXISTING STATE FACTORY
268	BUILT HOUSING LAW HAVE THE OPTION TO ACT AS THE AUTHORIZED
269	INSPECTION AGENCY WITHIN THEIR STATE. They are not required to change any of
270	their state fees, laws, or regulations other than those changes, which may be necessary to
271	allow them to agree to the above items. Manufacturers are required to be inspected by
272	their host state when this state agrees to perform inspections on Colorado units.
273	
274	
275	Independent Authorized Inspection Agencies
276	
277	This program is open on a voluntary basis to all Division approved independent
278	Authorized Inspection Agencies with the capabilities to regulate the design and in-plant
279	construction of Factory Built Housing covered by this Division of Housing Resolution.
280	
281	Each independent Authorized Inspection Agency that wishes to participate in this
282	program recognizes that they must be approved by the Division and establish mutual
283	recognition and acceptance of codes and inspections. Areas of agreement include:
284	
285	? Acceptance of construction codes that are adopted by the State of Colorado
286	Housing Board for Factory Built Housing units sold into or offered for sale
287	in Colorado. (See Schedule "B" in this Resolution).
288	
289	? Acceptance of the design evaluation and approval performed by the Division of
290	Housing or an uthorized nspection gency for units sold into or offered for
291	sale in Colorado.
292	
293	. Acceptance and use of the Division of Housing "Performance Criteria for
294	Monitoring the In-Plant Quality Control Systems of Factory Built Plants"
295	for in-plant inspection agencies.
296	
297	. Acceptance and use of the Division of Housing "Performance Criteria for
298	Factory Built Plan Review and Approval" standards for plan review
299	agencies.
300	

301	? Performance of in-plant certifications and other in-plant inspection requirements.
302	Routine inspections include performing inspections of at least one (1) unit
303	in each phase of manufacturing and performing a minimum of a rough, final
304	and other or inspections and/or tests (as required in Schedule "B") when a
305	production line process is not being utilized. Also to place the manufacturer
306	on a higher frequency of inspection when it is unable to conform, on a
307	continuing basis, to approved quality control procedures and or approved
308	plans and standards.
309	•
310	? Evaluation, at the manufacturing facility, of code compliance problems resulting
311	from consumer complaints on labeled Colorado units; work with the
312	manufacturer(s) in resolving such complaints by adequately following-up
313	and assisting them in correcting the complaint issue(s) and their production
314	and/or inspection process.
315	
316	? Provide sixty (60) days notice before withdrawing from participation in the
317	program, thereby allowing a manufacturer sufficient time to obtain a new
318	Authorized Inspection Agency.
319	
320	APPROVED PARTICIPATING INDEPENDENT INSPECTION AGENCIES
321	OPERATING UNDER AN EXISTING CONTRACT WITH A MANUFACTURER OR
322	LOCAL JURISDICTION WILL ACT AS THE SOLE AUTHORIZED INSPECTION
323	AGENCY FOR THAT PLANT AND/OR LOCAL JURISDICTION. They are not required
324	to change any of their company policies other than those changes, which may be
325	necessary to allow them to agree to the above items. Manufacturers are required to be
326	inspected by their contracted independent Plan Review and/or In-Plant Authorized
327	Inspection Agency when approved by the Division.
328	
329	
330	<u>Manufacturers</u>
331	
332	Any manufacturer of Factory Built Housing products that are sold into, offered for sale,
333	and/or occupied in Colorado shall participate in this program and agree to comply with
334	the following:
335	
336	? All manufacturing facilities may have only one Authorized Inspection Agency for
337	plan review and one Authorized Inspection Agency for inspections that is not the
338	Division of Housing
339	

 ? All in-state manufacturers shall have the option to contract with an Authorized Inspection Agency or continue to use the Division of Housing as the

342 Authorized Inspection Agency to perform certifications, in-plant production inspections, to evaluate their plant's quality control procedures, approve 343 344 manufacturer engineering manuals, approve plant construction plans, and/or 345 installation instructions. 346 347 ? Out of state manufacturers are required to obtain the services of an Authorized 348 Inspection Agency to perform certifications, in-plant production 349 inspections, to evaluate the plant's quality control procedures, and may use the Authorized Inspection Agency to approve manufacturer engineering 350 351 manuals, approve plant construction plans, and/or installation instructions. 352 353 ? Out of state manufacturers located in states that have reciprocity or other 354 agreements with the Division of Housing shall be notified if the state in 355 which they are located will continue to inspect Colorado units or if they 356 have to obtain the services of a firm or corporation to perform certification 357 and in plant production inspections of Colorado units. 358 359 ? After notification that the state in which they are located will no longer inspect Colorado units, manufacturers have (60) days to obtain another Authorized 360 361 Inspection Agency. 362 363 ? Out of state manufacturers without existing plant certifications and located in 364 states that enter into an agreement with Colorado to inspect Colorado units, 365 shall use that state as the Authorized Inspection Agency to perform 366 certifications, in-plant production inspections and evaluations of their 367 quality control procedures. 368 369 ? All manufacturers shall obtain prior approval from the Division of Housing or 370 Authorized Inspection Agency for all quality control manuals, plans, and 371 installation instructions before manufacturing and affixing the Colorado 372 and Authorized Inspection Agency label(s) to units constructed under those 373 approvals. 374 375 ? All manufacturers shall allow and pay for the reasonable costs incurred by the Division of Housing for work related to retaining and evaluating their 376 377 performance and registration/certification status. 378 379 ? All manufacturers shall allow and pay for oversight inspections as required by the 380 Division of Housing or Authorized Inspection Agency to assure compliance 381 to the approved designs. 382 7

383 384 385	? All manufacturers shall permit Division of Housing or Authorized Inspection Agency monitoring personnel to review plans and to perform in-plant and/or field inspections.
386	•
387	? All manufacturers shall correct any code violations in plans discovered by the
388	Division of Housing or by the Authorized Inspection Agency monitoring
389	personnel, or forfeit the right to have Division of Housing and Authorized
390	Inspection Agency labels affixed.
391	
392	? All manufacturers shall correct any construction code violations within 20-days,
393	or forfeit the right to have Division of Housing labels affixed.
394	
395	? All manufacturers must provide the Division of Housing with a monthly
396	inspection report showing the Authorized Inspection Agency and the
397	Division of Housing label number(s), unit serial number(s), and the first
398	destination of shipped Units.
399	**
400	?All manufacturers shall submit a fully completed and legible oversight
401	inspection data sheet to the Division prior to shipment of the home from the
402	factory.
403	·
404	Manufacturer Registration, Certification, and Performance Requirements
405	
406	Manufacturers of Factory Built Housing which are manufactured, sold into, offered for
407	sale, and/or occupied in the State of Colorado must register with the Division of Housing.
408	Registrations are for a specific plant location, and are not transferable to any other
409	locations including those of the same manufacturer.
410	
411	Where there is a change in ownership, address, or location of manufacture, the
412	manufacturer having Division of Housing certification shall notify the Division of
413	Housing within ten (10) working days of such a change. At such time the Division of
414	Housing shall review the performance of the manufacturer and transfer or revoke the
415	certification.
416	
417	Plant certification is granted to a manufacturer's registered plant, based on adequate plant
418	production performance, for a specific location, and is not transferable to other locations.
419	Plant certification is a certification of the plant Quality Control QC) program and the
420	quality control personnel that ensures construction code compliance. The Division shall
421	be immediately notified of any changes to the QC program and/or personnel.

The manufacturer's quality control department shall do "no cover" inspections for all phases of construction on all units and witness all required tests, regardless of plant status.

At the time of plan submittal *all* manufacturers are required to have Division of Housing approval, in writing, of the state, firm, corporation or entity that will conduct the certification and in-plant inspections of Colorado units. Additionally, manufacturers are also required to request approval of the Division of Housing thirty (30) days prior to any subsequent change of their Authorized Inspection Agency.

Upon Division of Housing approval of the Authorized Inspection Agency for production inspections, approved copies of the plans and quality assurance manual shall be sent to the manufacturer. Upon the manufacturer's receipt of the approved plans and manual, the Authorized Inspection Agency shall schedule plant production oversight inspections.

Registered plants shall be inspected for certification approval on an ongoing basis. Upon completion of certification inspections, a letter recommending plant certification and a copy of the certification inspection report shall be faxed by the Authorized Inspection Agency to the Division of Housing with a copy to the manufacturer. Upon receipt of this report, the Division of Housing will review it for completeness and accuracy. The manufacturer can then ship the certification unit(s) to Colorado for field inspection by the Division of Housing. After field inspection, the Division of Housing will notify the manufacturer if the unit has passed inspection and if the plant is certified or not certified.

Manufacturers are required to construct, on a continuing basis, factory built housing in conformance with plans, quality control manual, codes, standards, and procedures prepared by them and approved by the Division of Housing or Authorized Inspection Agency. The certification of a plant is considered to be ongoing unless conditions warrant immediate removal of the certification. Conditions for removal of certification are:

- ? The change of an Authorized Inspection Agency or change in Authorized Inspection Agency status.
- ? The change of a plant location.

- ? Where a plant has had Division of Housing and/or Authorized Inspection Agency labels removed by the Authorized Inspection Agency pursuant to the Division of Housing procedures.
 - . Less than six Colorado certified factory-built homes produced in a calendar year.

 Manufacturers demonstrating that they cannot perform within their approvals shall be placed on a higher frequency of inspection until their performance improves. If their performance does not improve, the manufacturer may have their Division of Housing certification status revoked.

In accordance with C.R.S. 24-32-3307, the State Director of Housing may pursue injunctive relief against manufacturers that fail to construct homes in accordance with their approved plans and quality control manual, fail to correct code violations, fail to comply with C.R.S. 24-32-Part 33, or fail to comply with these rules.

Manufacturer Certification Status

Plant Certification status runs concurrent with the plant registration period. Each manufacturer is required to resubmit their quality control manual (and when applicable, plans) for approval prior to the registration/certification expiration date that is stamped on the quality control manual. This shall be complied with regardless of when plans are approved or homes shipped. Failure to comply with this requirement shall result in the loss of Certified status for the plant.

When a licensed professional stamps and signs plans or calculations, the same professional or the agency the professional works for, may not review and approve the plans for construction.

Section 4: AUTHORIZED INSPECTION AGENCIES

Authorized Inspection Agency Approval

 All manufacturers that use an Authorized Inspection Agency to perform production inspections, evaluate quality control procedures, approve engineering manuals, approve plans, and/or approve installation instructions shall have such agency, other than states, request approval from the Division of Housing as an inspection agency for the State of Colorado. Request from firms, corporations or other entities shall contain the following minimum requirements:

? Name and address of agency making application.

? Categories for which agency seeks approval.

? A list of key personnel, with resumes, indicating their primary functions or duties.

505	
506	? The number of years the agency has actively engaged in the business for which
507	they seek approval.
508	
509	? A statement by the agency that it will adhere to all the requirements of the
510	Division of Housing.
511	2 1 131011 of 110 world.
512	? An explanation of the agencies plan review, plant certification, and/or inspection
513	procedures, including copies of the quality assurance and other inspection
514	reports.
515	
516	. A copy of the agencies ICC, IAS, or other Division approved accreditation
517	certificate as required.
518	
519	. A copy of the Colorado professional Engineer or Architect certification for and
520	employee that will be responsible for plan review and approval work as
521	required.
522	•
523	. A copy of the Colorado professional license and/or International Code Council
524	(ICC) inspector certifications for all personnel that will be performing in-
525	plant and/or field inspections as required.
526	
527	? Agree to furnish any other information that the Division of Housing may deem
528	necessary in order to properly evaluate and grant approval.
529	
530	? A statement that the submitting firm, corporation or entity is independent and
531	does not have any actual or potential conflict of interest and is not affiliated
532	with, influenced by, or controlled by any present or potential client
533	manufacturer in any manner which might effect its capacity to render
534	service or reports of findings objectively and without bias.
535	
536	? The request must contain the signature of a responsible officer, owner, or partner
537	of the submitting agency.
538	
539	? A list of the factory built housing manufacturers that are currently inspected.
540	
541	Authorized Inspection Agencies may only work in the specific categories for which the Division
542	of Housing has granted approval in writing.
543	
544	

545 **Authorized Inspection Agency Qualifications** 546 547 An Authorized Inspection Agency shall have the following requirements. Any 548 exceptions shall have prior approval by the Division of Housing. 549 550 ? States - Must have existing statutory authority to regulate the design and 551 construction of Factory Built Housing. 552 553 - Must also enter into a memorandum of understanding with Colorado. 554 555 ? Firms, corporations or other entities - Must currently be listed with a national 556 listing agency such as the ICC International Accreditation Service or other Division 557 approved agency. 558 559 After reviewing the request, the Division of Housing will notify the requesting firm, 560 corporation or entity of their acceptance or denial as an Approved Inspection Agency for 561 Colorado. 562 563 **Authorized Inspection Agency Quality Control and Reporting Requirements** 564 565 Authorized Inspection Agencies shall conduct certifications, in-plant production inspections, in-plant evaluations of the plant's quality control procedures, review 566 567 manufacturer engineering manuals, approve plant construction plans, approve installation 568 instructions, and/or installation inspections in accordance with Division of Housing 569 approved procedures and documents. 570 571 The structure will be inspected to the approved plans, except where the plans are not specific, and then the inspection shall be to the standards. The Authorized Inspection 572 573 Agency will also monitor the plant personnel performing the construction, testing, and inspections. 574 575 576 An Authorized Inspection Agency, when a plant is not certified, shall conduct a 577 minimum of a rough, final, and other inspections as required per code (see Schedule "B") for all units manufactured. 578 579 580 The Authorized Inspection Agency shall notify the Division in writing when it is satisfied that the manufacturer is capable of consistently manufacturing units to the approved plans 581 582 and codes. Upon successful completion of certification inspections, a letter 583 recommending plant certification and a copy of the certification inspection report shall be 584 faxed by the Authorized Inspection Agency to the Division of Housing with a copy to the 585 manufacturer. Upon receipt of this report, the Division of Housing will review it for

completeness and accuracy. The manufacturer can then ship the certification unit(s) to Colorado for field inspection by the Division of Housing. After field inspection, the Division of Housing will notify the manufacturer if the unit has passed inspection and if the plant is certified or not certified.

After the Division approves certified status for a plant, each unit being produced for Colorado shall be inspected by the Authorized Inspection Agency in one (1) phase of construction, minimum. In the course of each visit, the inspector shall also make a complete inspection of every phase of production line, systems testing, and of every Colorado unit in production as well as a random sampling of finished product on site.

Whenever the Authorized Inspection Agency finds that a manufacturer is unwilling or unable to conform on a continuing basis to the approved quality control procedures, and/or approved plans or standards, that manufacturing facility shall be placed on a higher frequency of inspection. The Division of Housing shall be notified and the certification labels held until the manufacturer demonstrates that they can perform within their approvals. If after three consecutive inspections, the last inspection still indicates that the manufacturer is not able to perform within their approvals or standards, all remaining insignias paid for by the manufacturer will be returned to the Division of Housing and no further insignias issued until problems are resolved. The Authorized Inspection Agency shall notify the Division of Housing of the action(s) taken.

Additional information, such as increased frequency and routine quality assurance inspection reports, will be requested by the Division of Housing in order to review the inspections conducted on specific units.

The Authorized Inspection Agency is required to provide its own inspection label so that it, also, can be affixed adjacent to the Colorado certification label(s) to each unit shipped to Colorado.

Division of Housing Monitoring of Authorized Inspection Agencies

The performance of all Authorized Inspection Agencies shall be monitored by Division of Housing to determine if they are fulfilling their responsibilities as required under this program.

The monitoring activities carried out by the Division of Housing staff shall consist of:

? Performing oversight inspections on homes that are shipped to Colorado. The purpose of these certification and other inspections are to evaluate the

626 performance of the manufacturer and inspection agency in ensuring the
627 selected homes comply with approved plans and construction codes.
628
629 Based upon finding(s) of inadequate performance, the frequency of

Based upon finding(s) of inadequate performance, the frequency of inspections may be increased as determined by the Division of Housing procedures.

- ? Reviewing all records of interpretations of the standards made by the Authorized Inspection Agency to determine whether they are consistent and proper.
- ? Reviewing inspection reports, records and other documents to assure that Authorized Inspection Agencies are carrying out all their responsibilities as set forth in the Division of Housing requirements.
- ? Reviewing records to assure that the Authorized Inspection Agency is maintaining proper label control and records pursuant to the requirements of this program.

Frequency of Monitoring

An approved Authorized Inspection Agency shall be periodically monitored. Every aspect of all actions of the Authorized Inspection Agencies shall be reviewed at a frequency adequate to assure that they are performing consistently to the Division of Housing requirements.

Resolution of Code Interpretation Conflicts

The Division of Housing will, upon written request, investigate complaints related to adopted construction code interpretation and enforcement. A written request must identify the Authorized Inspection Agency, the location of the structure(s) in question, the nature of the dispute, the code section reference, and all involved parties with contact information. Upon receipt of the request, the Division will contact all parties for a written response to the issues. After any necessary follow-up, the Division will issue an interpretation to resolve the code dispute to all parties. The Division's interpretation may be appealed to the Colorado State Housing Board Technical Advisory Committee. The decision of the committee is final.

662 663 Section 5: MANUFACTURER APPLICATION AND PLAN SUBMITTAL 664 665 All manufacturers shall obtain prior approval of each set of designs from the Division of 666 Housing or Authorized Inspection Agency before manufacturing and affixing the 667 Colorado and Authorized Inspection Agency label(s) to unit(s) constructed under those 668 plans. 669 670 Applications to the Division shall be made on forms supplied by the Division of Housing and shall be accompanied by the appropriate fees from Schedule "A" which is 671 672 incorporated herein and made a part of these Rules and Regulations by reference. 673 674 Submittal for approval of quality control manuals and model plans shall meet or exceed 675 the minimum requirements as specified by the Division of Housing. 676 677 All applications submitted shall be signed by an officer of the manufacturer that is in a 678 responsible position with the authority to commit manufacturers to comply with the rules 679 and regulations that govern the Colorado Factory Built Housing Construction Program. 680 681 The Division of Housing will grant or deny approval within twenty (20) working days of 682 the receipt of a complete submittal with the appropriate fee and with the required number 683 of copies. 684 685 If a submittal is not completed within one hundred twenty days of the initial application date, the application shall expire and all fees shall be forfeited. 686 687 688 Expired applications must be resubmitted as new applications with new application 689 forms, submittals and fees. 690 691 Plans that include Alternative Construction will not be approved without certification by 692 the local jurisdiction or CDOH accepting inspection responsibility for the AC work. 693 694 Approved plans and quality control manuals shall be evidenced by the stamp of approval 695 of the Division of Housing or Authorized Inspection Agency. One approved copy shall 696 be returned to the manufacturer and shall be retained at the place of manufacture. An 697 approved copy shall be retained by the approving agency. Authorized Inspection 698 Agencies shall send an additional approved copy to be kept on file with the Division of

approval of the agency that originally approved the plans.

Housing. Interim changes, additions, or deletions will not be acceptable without prior

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All units, which are manufactured, sold, or offered for sale in the State of Colorado, must display the Division of Housing and Authorized Inspection Agency insignias if applicable. These insignias certify that the unit is constructed in compliance with applicable codes and regulations adopted by the State Housing Board.

The granting of plan approval shall not be construed to be a permit or approval of any violation of the provisions of these regulations. All structures shall be subject to Division of Housing or Authorized Inspection Agency field inspection. The approval of the plans shall not prevent the Division of Housing or the Authorized Inspection Agency from requiring the correction of errors found in the plans or the unit itself, when found in violation of these regulations.

Approved copies of the quality control manual and plans shall be kept on file within the plant of manufacture for the purpose of construction and inspection by Division of Housing inspectors or the Approved Inspection Agency.

Plan approvals are granted to a manufacturer for a specific plant location and are not transferable to other locations including those of the same manufacturer.

Interim plan change approvals shall be required where the manufacturer proposes a change in structural, plumbing, heating, electrical, and/or fire life safety systems. Such changes shall become part of the approved plan unless the Division of Housing determines that the change constitutes a new model. If determined a new model, the interim change shall be processed as a new application. The difference in fees will be assessed.

The Division will approve unchanged plan renewals, previously approved by the Division, provided there has been no change in adopted codes and the plant General Manager certifies in writing that the plans are identical to those previously approved. The "Supplemental plan check fee" will apply. Should it be determined by the Division that plan changes have been made, the manufacturer will be subject to a Red Tag fee for every unit built to the changed plans and will conduct an investigation to ensure the code compliance of the homes built to the changed plans.

When amendments to these regulations require changes to be made to an approved plan, the Division of Housing shall notify the manufacturer of the requirement and shall allow the manufacturer a reasonable time to submit revised plans for approval. Revised plans shall be processed as interim changes with the appropriate fees assessed.

Some building departments require a set of prints with the Colorado approval stamp. This can be addressed by requesting that additional prints be approved and provided to the Division at the time of original application. Appropriate fees must accompany requests for more than three approved plan sets. The Division will provide a Plan Submittal Checklist upon request.

Authorized Inspection Agency Plan Approval

Manufacturers may, at their expense, use an Authorized Inspection Agency that has been approved by the Division for plan review and approval. Reference Section 4 of these Rules and Regulations.

Section 6: PLANT/PLAN/QUALITY CONTROL REGISTRATION/CERTIFICATION EXPIRATION DATE

The plant registration period is one year. Plant Certification status runs concurrent with the plant registration period. Each manufacturer is required to resubmit their quality control manual (and when applicable, plans) for approval prior to the registration/certification expiration date that is stamped on the quality control manual. Failure to comply with this requirement shall result in the plant having to comply with the initial registration/certification inspection requirements.

The registration/certification expiration date for all plants is determined by the expiration date that is stamped on the quality control manual. Plans that are submitted at the time of registration/certification and/or within the registration/certification period shall have the same registration/certification expiration date as the quality control manual.

It shall be the responsibility of the manufacturer to submit to the Division of Housing or Authorized Inspection Agency an application for plant registration and quality control manual approval thirty (30) days prior to the expiration date.

Section 7: PLANT PRODUCTION AND INSPECTION FEES

The Division of Housing and/or the Authorized Inspection Agency shall conduct certification and production inspections of all manufacturers engaged in the manufacturing or offering for sale of Factory-Built Housing Units in the State of Colorado. This inspection shall include the quality control program and systems testing.

784 ? The fees for Division of Housing inspections are shown in Schedule "A". 785 786 ? The cost of Division of Housing inspections are not refundable. 787 788 At the time of initial registration and upon each request to renew registration, all 789 manufacturers must submit a copy of I. R. S. Form W-9 (request for taxpayer 790 identification number and certification) to the Division of Housing. 791 792 **Section 8: POSTED UNITS** 793 794 Whenever an inspection reveals that a unit fails to comply with any provision of these 795 rules and regulations, the Division of Housing or the Authorized Inspection Agency may 796 post such a unit with a Prohibited Sale Notice/Red Tag Notice. 797 798 **Prohibited Sale Notice** 799 800 When a unit is posted with a Prohibited Sale Notice, the Division of Housing or the 801 Authorized Inspection Agency will notify the affected parties that the structure contains a 802 violation(s). The affected parties must resolve the prohibited sale issues with the agency 803 that posted the unit. 804 805 ? A unit posted with a Prohibited Sale Notice, shall not be sold or offered for sale in 806 the State of Colorado, nor shall the unit be moved or caused to be moved 807 without the prior written approval of the Division of Housing or Authorized 808 Inspection Agency. 809 810 ? Within five (5) working days, the affected parties or their agents shall notify, in writing, the Division of Housing or the Authorized Inspection Agency of the 811 812 action taken to correct the violation(s) and what steps have been taken by 813 management to preclude the recurrence of the violation(s). Failure to 814 respond within five (5) days may cause revocation of an affected parties 815 status. 816 817 ? All units posted with a Prohibited Sale Notice shall be corrected or removed from 818 the state (with prior written approval of the Division of Housing or 819 Authorized Inspection Agency). All units that are corrected shall be reinspected to assure compliance with the codes and regulations. A 820 821 reinspection fee will be assessed. 822

825 **Red Tag Notice** 826 827 A Red Tag Notice is a physical identification that a particular unit has a life threatening 828 violation. When a unit is posted with a Red Tag Notice, the Division of Housing or the 829 Authorized Inspection Agency inspector will notify the affected parties that the unit 830 contains a life threatening violation(s). The affected parties must resolve the Red Tag 831 issue(s) with the agency that posted the unit. 832 833 ? A unit posted with a Red Tag Notice shall not be sold or offered for sale in the 834 State of Colorado. 835 836 ? All units that are corrected shall be reinspected to assure compliance with the 837 codes and regulations. A reinspection fee will be assessed. 838 839 Prohibited Sale Notices/Red Tag Notices shall be removed only by an authorized 840 representative of the Division of Housing or Authorized Inspection Agency. 841 842 REVOCATION OF PLANT CERTIFICATIONS **Section 9:** 843 844 The Housing Board may revoke a plant certification after notice and hearing pursuant to 845 Section 24-4-104 & 24-4-105, C.R.S., whenever a manufacturer has violated any provision of these regulations or when a plant certification was granted in error, on the 846 847 basis of incorrect information supplied by the applicant. 848 849 Judicial review of plant certification revocation actions shall be governed by Section 24-850 4-106, C.R.S. 851 852 DENIAL OF PLANT REGISTRATION/CERTIFICATION **Section 10:** 853 854 The Division of Housing may deny an application for plant registration, certification, or re-certification if an applicant manufactures any unit in violation of approved plans or 855 these rules and regulations. In addition, as a condition of registration, certification, or re-856 857 certification, the Division of Housing may impose any of the following conditions for registration, certification, or re-certification: 858 859 860 Revision of the manufacturer's Quality Control Program. 861 862 Identification by model and serial number of each unit to be offered for sale in Colorado. 863 864 865 Inspection of each unit prior to affixing certification insignias. ?

866 867 Inspection of the manufacturer's plant (with the cost of inspection borne by ? 868 the manufacturer). 869 870 Resolution of previous violations and/or unpaid fees. 871 872 ? Any combination of above or other action as determined necessary to insure 873 future compliance with these regulations. 874 875 The Division shall promptly notify the applicant of the denial or condition imposed. The 876 applicant may, within sixty (60) days following such action, request a hearing before the Housing Board. If requested, a hearing shall be conducted pursuant to Section 24-4-105, 877 878 C.R.S. Thereafter, the final decision of the Housing Board shall be subject to judicial review in accordance with Section 24-4-106, C.R.S. 879 880 881 Section 11: CERTIFICATION INSIGNIA APPLICATION AND REPORTS 882 883 Registered (non-certified) and certified manufacturers must submit an application for 884 Colorado insignias on forms provided by the Division of Housing with the appropriate 885 fees from Schedule "A". 886 887 Insignias for registered manufacturers will be held by the Division of Housing or 888 Certified Authorized Inspection Agency and affixed to each unit upon final inspection 889 approval by the Division or Authorized Inspection Agency. 890 891 Insignias for certified manufacturers will be mailed to the manufacturer and shall be 892 affixed to Colorado certified units upon final approval by the manufacturer's quality 893 control manager. 894 895 Insignias are assigned for use at a specific plant location and shall not be transferable or used on an unapproved model. Colorado certification insignias issued for one type of 896 897 certification may not be used on a unit of another (different) type. A 3"x5" primary 898 insignia, documenting manufacturer and unit design information, is required for the first 899 section of a home. Each additional habitable floor section requires a 2"x2" "Additional 900 Floor Tag" insignia. 901 902 The primary Insignia must be permanently affixed inside the kitchen sink cabinet or

directly under the primary insignia.

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inside the vanity cabinet if there is no kitchen sink, prior to units being removed from a Certified plant. Additional Floor Tag insignias are to be permanently affixed and located

907 908		he unit serial number, date of manufacture, wind astruction codes on the primary insignia.
909	6 T	T T T T T T T T T T T T T T T T T T T
910	Insignia reports shall be submitted by t	he manufacturer to the Division of Housing by the
911		of forms supplied by the Division of Housing. An
912	insignia report is required when the ma	nufacturer has insignias outstanding during that
913	period. Manufacturers are also require	d to provide the Division of Housing a copy of
914	their monthly production report.	
915		
916	1 0 1	s may be required prior to the issuance of
917	additional insignias.	
918		
919	Primary Insignias are to be affixed in c	consecutive order.
920 921	Colorado incignias chall ramain the pro	operty of the State of Colorado and may be
922	<u> </u>	g upon any violation of this resolution. Defaced,
923	· · · · · · · · · · · · · · · · · · ·	all be returned to the Division of Housing without
924		ored in a safe and secure location approved by the
925	Division or Authorized Inspection Age	
926	21,101011 01.110110111010 1110101111111111	
927	A Notification of Oversite Inspection I	Data Sheet form shall be legibly completed and
928	submitted to the Division of Housing p	rior to the shipment of every Colorado unit.
929		
930		odified, prior to or during, installation at a site
931	without approval from the Division of	Housing.
932	SECTION 12. IDDECLIL ADTRIES	
933 934	SECTION 12: IRREGULARITIES	
935	Any and all irregularities in these Rules and R	egulations shall not be justification for producing
936	any Unit without proper inspections and in vio	
937	any cint without proper inspections and in vio	auton of the adopted construction codes.
938	6/3/09	
939	ATTEST:	
940		
941		
942 943	Teresa Duran, Acting Director	Theo Gregory, Chairperson
943 944	Colorado Division of Housing	Colorado State Housing Board
945	Colorado Division of Housing	Colorado State Housing Doald
946		
947	Date	Date

948 949 950	9 FEE SCHEDULE						
951 952 953	the app	All fees, exception. Fe	ie in ad	vance and must accompany			
954 955	1.	Annual Plan	nt registration fee	:		\$500.00	
956 957	2.	Annual Insp	pection Agency re	egistration fee:		\$250.00	
957 958 959 960	3.	Plan checki	ng fees (maximu	m 3-sets): Finished spac Unfinished sp		\$0.25 per sq. ft. (\$160 min.) \$0.10 per sq. ft.	
961 962 963	4.	Certification	n insignia fee:	Primary Insignia- Additional Floor Tag-		\$100.00 \$100.00	
964 965 966	5.		-	(revisions, duplicate sens to be calculated based		\$0.10 per sq. ft. (\$50 min.) ace revised.	
967 968	6.	Oversight p	lan check fee:			\$0.15 per sq. ft. (\$100 min.)	
969 970 971 972 973	7.	concur for un	rrence, the Divisi		ive plan	te Housing Board review and inspection fees housing programs for low-	
974 975	8.	Inspection f	ees:				
976 977		A.	Plant certification	on inspection fee:	\$350.0	00 per inspector per trip	
978 979		В.	Oversight/AC is	nspection fee:	\$230.0	00 per inspector per trip.	
980 981 982 983 984 985		C.	lodging, parking and travel. Out of-State: \$	o per hour, per inspector g, car rental, etc. as allow 50.00 Hour/ per inspect	wed in	ip expenses of travel, food, state fiscal rules for per diem trip expenses of travel, food, state fiscal rules for per diem	
986 987 988		D.	and travel. Prohibited Sale			\$250.00	

989 SCHEDULE "B" 990 991 992 The State Housing Board adopts the following nationally recognized codes as the "Colorado 993 Construction Safety Code for Factory-Built Housing". 994 995 996 **Factory-Built Housing Construction Code of the State of Colorado** 997 998 Shall be: 999 1000 1. The International Building Code, 2006 Edition, published by the International Code 1001 Council, Inc. 1002 2. The International Residential Code, 2006 Edition, published by the International Code 1003 1004 3. The International Mechanical Code, 2006 Edition, published by the International Code 1005 Council, Inc. 1006 4. The International Plumbing Code, 2006 Edition, published by the International Code 1007 Council, Inc. 1008 5. The National Electric Code, 2008 Edition, published by the National Fire Protection 1009 Association, Inc. 1010 6. The International Fuel Gas Code, 2006 Edition, published by the International Code 1011 Council, Inc. 7. The International Energy Conservation Code, 2006 Edition, published by the 1012 International Code Council, Inc. effective until June 30, 2010. 1013 1014 8. The International Energy Conservation Code, 2009 Edition, published by the International Code Council, Inc. effective July 1, 2010. 1015 1016 1017 Transition Period: Manufacturers shall be permitted to use the construction codes in effect prior 1018 to the adoption of this resolution for a maximum of 90-days after this resolution takes effect.

AMENDMENTS:

The following amendments by addition, deletion, revision and exceptions are made:

INTERNATIONAL BUILDING CODE:

Section 310, R-3, Add new sentence at the end:

A single building or structure where 5 or less adults sleep at any time (commercial worker housing) may comply with the International Residential Code as a dwelling provided there is no mixed occupancy and there is permanently affixed signage in the immediate vicinity of sleeping rooms that states "No more than 5-adults may sleep at any time in this building".

Section 901.5.1 Add the following Section:

Special inspector required. All fire protection systems required by this Chapter shall be inspected and approved by a special inspector. The inspector shall be an employee of the fire department having jurisdiction or another qualified individual with prior approval of the Colorado Division of Fire Safety. Inspections and approvals will be regulated under Chapter 17 of this Code.

Section 907, Amend title to: "Single and multiple station alarms" and add subsections:

907.2.10.5 Carbon monoxide alarms. In new construction, dwelling units within which fuelfired appliances are installed or have an attached garage, shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area within 15 feet of the bedroom(s) access.

- 907.2.10.5.1 Alarm requirements. The required carbon monoxide alarms shall be clearly audible in all bedrooms over normal background noise levels with doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.
- UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms

907.2.10.6 Separate circuits prohibited. Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for Smoke and/or Carbon Monoxide alarms.

Section 1507.1.1, Ice Dam Membrane Required is amended to read:

Ice dam protection is required where stated throughout Section 1507 due to a history of ice forming along eaves in Colorado. Regardless of roof slope or material, when the snow load is above sixty five pounds per square foot (65lb./sq.ft.), roofing underlayment shall be two layers of Type 15 felt applied shingle fashion and solid mopped together with approved cementing material between the plies, or 40 mil listed self adhering roofing membrane and shall be installed extending from the eave up the roof to a point 8 feet 6 inches inside the exterior wall line of the building and shall extend continuously to a point 4 feet from any valley, cricket or similar construction junctions with roofs. The ice dam membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering.

Section 1608.2, Ground Snow Load is amended to read:

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Roof Snow Load (Pf) design criteria shall be in accordance with the local jurisdiction requirements. The minimum roof snow load shall be 30 PSF and the allowable increase for snow duration shall not be used when the snow load is above 65 PSF.

1074 1075 1076

1073

Section 1609.1.1. Add the Following:

1077 1078

Wind Load design criteria shall be in accordance with the local jurisdiction requirements. The minimum Wind load design criteria shall be 90 MPH, Exposure C, unless otherwise justified.

1079 1080 1081

Section 2111.1.1. New Fireplaces – Add the following section:

1082 1083

Every new fireplace shall have permanently installed one of the following:

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- 1. Approved gas logs.
- Other approved gas or alcohol specific appliances. 2.
- 3. An approved fireplace insert meeting the most stringent emission standards for wood stoves established under State statute and/or regulations promulgated by the State Air Quality Control Commission (AQCC) as of the time of installation of the fireplace; or
- 4. A solid fuel burning device which is exempt from and not eligible for certification under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which has been tested 1092 to demonstrate its emission performance is in accordance with criteria and procedures not less stringent than those required by the U.S. EPA and/or AQCC for wood stoves manufactured after July 1, 1990.

99 00	Section I	R202 – Defi	<u>initions</u>						
01	Add defin	nition:							
					_		rgy consumpuse analysis.		o carbon
06	Section I	R105.2, Wo	rk exempt	from peri	nit. Buil	ding:			
09 10	Item #1.	Change 12	20 square i	feet to 200	square fo	eet			
11 12 13 14			TABLI	E R301.2 (1	1) IS AM	ENDED T	TO READ:		
	ROOF SNOW LOAD ¹	WIND SPEED (mph) ¹	SEISMIC DESIGN CATEGORY		Subject to Dan	age From	WINT DESI TEM	GN MENT	AY FLOOD HAZARD
	MIN.	MIN. 90 mph,		WEATHER	FROST LINE DEPTH PER	TERMITE	PEI	R YES	PER
	30 psf	Exp. C	В	SEVERE	LOCAL	SLIGHT	LOC		LOCAL
15 16 17 18 19	requ	uirements a	and shall no	ot be less t	han the n	ninimums	ordance with stated. The pove 65 PSF	allowable in	
20 21	⁽²⁾ Se	ee Attachm	ent A and v	verify with	local juris	diction			
2	$^{(3)}$ S	ee the Nat	ional Clim	atic Data	Center da	ıta table "	Air Freezin	g Index-US	A Method
} -	(Ba	se 32° Fahr	enheit)" at	www.ncdc.	.noaa.gov	<u>/fpsf.html</u> .			
5 5	Table R3	301.5 – Liv	e Loads						

AIR FREEZING INDEX³

> PER LOCAL

1096 1097

1098

1127 1128

1129 1130 INTERNATIONAL RESIDENTIAL CODE:

^(j)When the snow load is above 65 psf, the minimum uniformly distributed live loads for exterior balconies, decks and fire escapes shall be as required for roof snow loads.

...add footnote (j) to Decks, Exterior balconies, Fire escapes:

1131 1132 Section 313, Amend title to: "Alarms" and add subsections: 1133 1134 R313.1.1 Carbon monoxide alarms. In new construction, dwelling units within which fuel-1135 fired appliances are installed or have an attached garage, shall be provided with an approved 1136 carbon monoxide alarm installed outside of each separate sleeping area within 15 feet of the 1137 bedroom(s). 1138 1139 **R313.1.2** Alarm requirements. The required carbon monoxide alarms shall be clearly audible 1140 in all bedrooms over normal background noise levels with doors closed. Single station carbon 1141 monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions. 1142 UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms 1143 1144 1145 **R313.2** Add new sentence at the very end: 1146 1147 Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for 1148 Smoke and/or Carbon Monoxide alarms. 1149 1150 Section R802.10 Wood trusses. 1151 1152 ...add new section: 1153 1154 **R802.10.6** Marking. Each truss shall be legibly branded, marked, or otherwise have 1155 permanently affixed thereto the truss identification as shown on the truss design drawing located within two (2) feet of the peak of the truss on the face of the top chord. 1156 1157 1158 1159 1160 **Section R905.1 – Roof Covering Application** 1161 1162 ...add subsection: 1163 1164 **R905.1.1 Ice dam membrane required.** Ice dam protection is required, where stated 1165 throughout Section R905, due to a history of ice forming along eaves in Colorado. An ice dam protection underlayment that consists of at least two layers of underlayment cemented 1166 1167 together or of a self-adhering polymer-modified bitumen sheet shall extend from the eave's 1168 edge to a point at least 24 inches inside the exterior wall line of the building. For snow 1169 loads above 65 psf, the ice dam membrane shall be extended from the eave to a point 8 1170 feet 6 inches inside the exterior wall line, and shall extend continuously to a point 4 feet 1171 from any valley, cricket or similar construction junction with roofs. The ice dam

membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering. Section R1004.4, G2406.2 exception 3 and 4, G2425.8 #7, G2445; Delete all and add: Unvented fuel fired room heaters are prohibited. **Section R1004.5 – Fireplaces** ...add: Every new fireplace shall have permanently installed one of the following: 1. Approved gas logs; 2. Other approved gas or alcohol specific appliances; 3. An approved fireplace insert meeting the most stringent emission standards for wood stoves established under State statute and/or regulations promulgated by the State Air Quality Control Commission (AQCC) at the time of installation of the fireplace; or 4. A solid fuel burning device which is exempt from and not eligible for certification under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which has been tested to demonstrate its emission performance is in accordance with criteria and procedures not less stringent than those required by the U.S. EPA and/or AQCC for wood stoves manufactured after July 1, 1990. **Chapter 11 – ENERGY EFFICIENCY** Replacement Date: On July 1, 2010 the entire chapter is to be deleted and replaced with Chapter 11 of the 2009 International Residential Code. ...add new sentence: N1101.1 Scope. An approved "Zero-Energy Building" is exempt from the provisions of this Chapter 11.

1212 1213	Section M2001.1 - Installation
1214	is amended to add the following sentence:
1215	č
1216 1217	All rooms or spaces containing boilers shall be provided with a floor drain and trap primer.
1218	Section G2417.4.1 Test pressure
1219	
1220	is amended as follows:
1221	
1222	The test pressure to be used shall be not less than one and one half times the proposed
1223	maximum working pressure, but not less than 10 psig (69 kPa gauge), irrespective of
1224 1225	design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50
1226	percent of the specified minimum yield strength of the pipe.
1227	
1228	Electrical Sections
1229	
1230	Delete Chapters 33 through 42.
1231	
1232	
1233	INTERNATIONAL FUEL GAS CODE:
1234	
1235	Section 303.3 Prohibited locations.
1236	
1237	Add Item:
1238	
1239	Number 6. LPG appliances. LPG appliances shall not be installed in a pit, basement or
1240	crawl space where unburned fuel may accumulate unless an approved sensing device is
1241	installed in conjunction with an automatic shutoff valve at the tank.
1242	
1243	Delete Exception Numbers 3 and 4.
1244	
1245	Section 406.4.1 Test pressure.
1246	
1247	amend to read:
1248	
1249	The test pressure to be used shall be not less than one and one-half times the proposed
1250	maximum working pressure, but not less than 10 psig (20 kPa gauge), irrespective of
1251	design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test
1252	pressure shall not exceed a value that produces a hoop stress in the piping greater than 50

1253	percent of the specified minimum yield strength of the pipe. Welded gas and medium
1254	pressure piping (14 inch water column or greater) shall be tested at a minimum of 60 psi.
1255	
1256	Section 601.1. Scope. Add the following sentence:
1257 1258	Approved and listed gas logs shall be installed in new solid fuel burning fireplaces when
1259	required by Sections 2111.1.1 of the International Building Code as amended.
1260	required by Sections 2111.1.1 of the international building code as amended.
1261	Section 621 Unvented room heaters. Amend to read:
1262	
1263	Unvented fuel fired room heaters are prohibited.
1264	
1265	
1266	INTERNATIONAL PLUMBING CODE:
1267	
1268	The following Appendix Chapters to the International Plumbing Code, 2006 Edition, are hereby
1269	adopted.
1270 1271	Annualis Chapter D. Dagras Day and Dagign Tomperatures for Cities in the United States
1271	Appendix Chapter D – Degree Day and Design Temperatures for Cities in the United States.
1272	Appendix Chapter E – Sizing of water piping systems.
1274	rippendix chapter 2 sizing of water piping systems.
1275	No other appendix chapters are adopted.
1276	
1277	INTERNATIONAL MECHANICAL CODE:
1278	
1279	Add the following Sections –
1280	
1281	Section 303.3.1 LPG appliance.
1282	
1283	LPG appliances shall not be installed in a pit, basement or crawl space where unburned
1284	fuel may accumulate unless an approved sensing device is installed in conjunction with
1285 1286	an automatic shut-off valve at the LPG tank.
1287	Section 903.1 General. Add sentence:
1288	Section 703.1 General. And semence.
1289	Every new installation of a solid fuel-burning, vented decorative appliance or room
1290	heater shall meet the most stringent emission standards for woodstoves established under
1291	State statute and/or regulations promulgated by the State Air Quality Control
1292	Commission as of the time of installation of the appliance for room heater. (Effective
1293	January 1, 1991 – CC90-617.)

1296		
1297		Unvented gas log heaters are prohibited.
1298		
1299		INTERNATIONAL ENERGY CONSERVATION CODE
1300		
1301		Section 101.2.1 Exempt Buildings.
1302		
1303		add exemption:
1304		
1305		101.2.1.3 Zero-Energy Buildings. Zero energy buildings are exempt from the
1306		provisions of the International Energy Conservation Code.
1307		
1308		Section 202 – Definitions
1309		
1310		add definition:
1311		
1312		ZERO-ENERGY BUILDING. A building with zero net energy consumption and zero
1313		carbon emissions annually as certified by an approved annual energy use analysis.
1314		
1315		
1316	NATI	ONAL ELECTRIC CODE:
1317		
1318		ollowing amendments by addition, deletion, revision and exceptions are made to the
1319	Nation	nal Electrical Code, 2008 Edition, for use with all Factory Built units:
1320		
1321	1.	Article 406.8(C), (1) Shower or Bathroom space. Receptacle outlet shall not be installed
1322		in or within 30 inch (762 mm) of a shower or bathtub base.
1323		
1324	2.	Article 545, Manufactured Buildings, is amended to include: 545.14. Testing.
1325		
1326		(A) Dielectric Strength Test. The wiring of each factory built unit shall be subjected to
1327		a 1-minute, 900-volt AC or 1273-volt DC dielectric strength test (with all switches
1328		closed) between live parts (including neutral) and the ground. Alternatively, the
1329		test shall be permitted to be performed at 1,080-volts AC or 1527-volts DC for 1
1330		second. This test shall be performed after branch circuits are complete and after
1331		wiring devices are installed and wiring properly terminated.
1332		Exception 1: Listed fixtures or appliances shall not be required to withstand the
1333		dielectric strength test.
1334		Exception 2: Units wired in Electrical Metallic Tubing or Rigid Metal Conduit.

Section 903.3...is amended to read as follows:

1335		
1336	(B)	Continuity and Operational Tests and Polarity Checks. Each manufactured building
1337		shall be subjected to:
1338		
1339		(1) An electrical continuity test to ensure that all exposed electrically conductive
1340		parts are properly bonded;
1341		
1342		(2) An electrical operational test to demonstrate that all equipment, except water
1343		heaters and electric furnaces, is connected and in working order; and
1344		
1345		(3) Electrical polarity checks of permanently wired equipment and receptacle
1346		outlets to determine that connections have been properly made.
1347		
1348		These tests shall be performed after branch circuits are complete and after wiring
1349		devices are installed and wiring properly terminated.
1350		
1351		
1352	3. Arti	ele 320.23(A). Add a new sentence at the end:
1353		
1354	Substantial	guard strips shall be provided to protect wiring within three (3) feet of the marriage
1355	line where t	he attic is exposed and the roof is completed on-site, such as a hinged roof. See
1356	Article 320.	23(A)

1358	ATTACHMENT "A"
1359	DEGREE DAYS AND DESIGN TEMPERATURES
1360	FOR COLORADO CITIES AND TOWNS
1361	

1362			Heating	Design Temperatures°F			Elevation
1363	Loca	tion	Degree Days	Winter	Sumn	ner	(feet)
1364				971/2%	DB 2½%	WB 2½%	above sea
1365	1	Alamosa	8749	-16	82	61	7546
1366	2	Aspen	9922	-1	81	59	7928
1367	3	Boulder	5554	2*	91	63	5385
1368	4	Buena Vista	8003	-1	83	58	7954
1369	5	Burlington	6320	2	95	70	4165
1370	6	Canon City	4987	8	90	64	5343
1371	7	Cheyenne Wells	5925	1	97	70	4250
1372	8	Colorado Springs	6415	2	88	62	6012
1373	9	Cortez	6667	5	88	63	6177
1374	10	Craig	8403	-14	86	61	6280
1375	11	Creede	11375	-18	80	58	8842
1376	12	Del Norte	7980	-4	81	60	7884
1377	13	Delta	5927	6	95	62	4961
1378	14	Denver	6020	1	91	63	5283
1379	15	Dillon	11218	-16	77	58	9065
1380	16	Dove Creek	7401	-6	86	63	6843
1381	17	Durango	6911	4	87	63	6550
1382	18	Eagle	8106	-11	87	62	6600
1383	19	Estes Park	7944	-7	79	58	7525
1384							

1385

1357

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

^{1390 *} Per Local. 8° per 1985 ASHRAE

1371		DEGI		DEDIG			
1392		F	OR COLORAI	OO CITII	ES AND TOV	VNS	
1393							
1394			Heating	Desig	n Temperatur	es°F	Elevation
1395		Location	Degree Days	Winter	Sumi	mer	(feet)
1396				971/2%	DB 2½%	WB 2½%	above sea
1397	20	Ft. Collins	6368	-4	91	63	5001
1398	21	Ft. Morgan	6460	-5	92	65	4321
1399	22	Fraser	9777	-22	76	58	8560
1400	23	Glenwood Springs	7313	5	91	63	5823
1401	24	Granby	9316	-			7935
1402	25	Grand Junction	5548	7	94	63	4586
1403	26	Greeley	6306	-5	94	64	4648
1404	27	Gunnison	10516	-17	83	59	7664
1405	28	Holyoke	6583	-2	97	69	3746
1406	29	Idaho Springs	8094	0	81	59	7555
1407	30	Julesburg	6447	-3	98	69	3469
1408	31	Kit Carson	6372	-1	98	68	4284
1409	32	Kremmling	10095	-19	85	59	7359
1410	33	La Junta	5263	3	98	70	4066
1411	34	Lamar	5414	0	98	71	3635
1412	35	Last Chance		-2	92	65	4790
1413	36	Leadville	11500	-4	81	55	10,152
1414	37	Limon	6961	0	91	65	5366
1415	38	Longmont	6443	-2	91	64	4950
1416	39	Meeker	8658	-6	87	61	6347
1417	40	Montrose	6383	7	91	61	5830
1418	41	Ouray	7639	7	83	59	4695

DEGREE DAYS AND DESIGN TEMPERATURES

1391

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

¹⁴²² Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

1425	DEGREE DAYS AND DESIGN TEMPERATURES									
1426	FOR COLORADO CITIES AND TOWNS									
1427										
1428			Heating	Desig	n Temperature	es°F	Elevation			
1429		Location	Degree Days	Winter	Sumr	ner	(feet)			
1430				971/2%	DB 2½%	WB 2½%	above sea			
1431	42	Pagosa Springs	8548	-9	85	61	7079			
1432	43	Pueblo	5413	0	95	66	4695			
1433	44	Rangely	7328	-8	93	62	5250			
1434	45	Rifle	6881	0	92	63	5345			
1435	46	Saguache	8781	-3	82	61	7697			
1436	47	Salida	7355	-3	84	59	7050			
1437	48	San Luis	8759	-10	84	60	7990			
1438	49	Silverton	11064	-13	77	56	9322			
1439	50	Springfield	5167	3	95	71	4410			
1440	51	Steamboat Springs	9779	-16	84	61	6770			
1441	52	Sterling	6541	-2	93	66	3939			
1442	53	Trinidad	5339	3	91	65	6025			
1443	54	Uravan		8	97	63	5010			
1444	55	Vail	9248	-14	78	59	8150			
1445	56	Walden	10378	-17	79	58	8099			
1446	57	Walsenburg	5438	1	90	63	6220			
1447	58	Wray	6160	-1	95	69	3560			
1448	59	Yuma	5890	-2	95	69	4125			

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

1424

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

101	RESOLUTION #35
102	FACTORY BUILT NONRESIDENTIAL STRUCTURES
103	
104	
105	BE IT RESOLVED BY THE STATE HOUSING BOARD OF THE STATE OF
106	COLORADO;
107	
108	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the State Housing Board
109	of the State of Colorado (the "Housing Board") repeals and readopts Resolution #35 Factory
110	Built Nonresidential Structures; and
111	
112	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
113	adopts the nationally recognized code as cited in SCHEDULE "B" as the "Colorado Construction
114	Safety Code for Factory Built Nonresidential Structures", and
115	
116	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
117	states the basis and purpose of these rule changes is to update the current minimum construction
118	and safety code for "Factory Built Nonresidential Structures" manufactured, sold, offered for
119	sale, or occupied in Colorado; and
120	
121	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
122	establishes standards, to the extent allowed by the state constitution, Article 50 of the "State
123	Personnel System Act", and the rules promulgated by the Personnel Board, for private inspection
124	and certification entities to perform the Colorado Division of Housing's certification and
125	inspection of in-state and out-of-state Factory Built Nonresidential Structures; and
126	
127	THAT PURSUANT TO §24-32-3301 et seq C.R.S. as amended, the Housing Board
128	states that "Factory Built Nonresidential Structures" manufacturers shall have the option to
129	contract with the Colorado Division of Housing or an authorized inspection agency to perform
130	inspection and certification functions; and
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132	The Housing Board states that these rules do not include later amendments to or editions
133	of the nationally recognized code; and
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135	The Housing Board repeals and readopts these rules and regulations to be administered
136	and enforced by the Colorado Division of Housing (the Division of Housing).
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RULES AND REGULATIONS

Section 1: SCOPE

Every Factory-Built Nonresidential Structure manufactured after the effective date of these regulations that is manufactured, sold, offered for sale, or occupied in this state must display an insignia issued by the Division of Housing certifying that the unit is constructed in compliance with the standards adopted in schedule "B" which is incorporated herein and made a part of these Rules and Regulations by reference, and all other requirements set forth by this resolution.

The Housing Board states that the Program Manager, Housing Technology and Standards Section, Colorado Division of Housing, 1313 Sherman Street, Room 321, Denver, Colorado 80203, will provide information regarding how the codes adopted in Schedule "B" may be obtained or examined. Homes constructed under Schedule "B" do not include units built to the Federal Manufactured Home Construction and Safety Standards (HUD Standards). Incorporated material may also be examined at any state publications depository library.

Section 2: DEFINITIONS

"ADMINISTRATIVE AGENCY" is the Colorado Division of Housing. The Division of Housing is the state agency responsible for enforcing the Factory-Built Nonresidential Construction Statutes, Rules, and Regulations.

"ALTERNATIVE CONSTRUCTION (AC)" is specific additional construction and/or modification of the factory-built structure that directly affects the life, health, safety, and/or habitability of the structure and is not covered by the factory-built or installation certification insignias and requires inspection(s) to verify code compliance.

"AUTHORIZED INSPECTION AGENCY" means the Division of Housing or any state agency, Colorado local jurisdiction, firm, corporation or entity approved by the Division of Housing to conduct production inspections, to evaluate the manufacturer's quality control procedures, approve manufacturer's engineering manuals,, and approve factory-built model construction plans. Authorized Inspection Agencies will be "Registered" based on qualifications and "Certified" based on qualifications and performance.

"CONSTRUCTION, CLOSED" means any building, building component, assembly, or system manufactured in such a manner that all concealed parts or processes of manufacture cannot be inspected before installation at the building site without disassembly, damage, or destruction.

"CONSTRUCTION, OPEN" means any building, building component, assembly, or system manufactured in such a manner that all concealed parts or processes of manufacture can be readily inspected at the building site without disassembly, damage, or destruction.

"FACTORY-BUILT NONRESIDENTIAL STRUCTURE" is a unit or component thereof, built in compliance to the applicable of codes listed in Schedule "B". These units are designed primarily for commercial, industrial, or other nonresidential use, either permanent or temporary (as determined by the local building department), which is wholly or in substantial part, made, fabricated, formed or assembled as Closed Construction in a manufacturing facility for installation, or assembly and installation, on permanent or temporary foundations at the building site.

"INSIGNIA" means a seal, label or tag issued by the Division of Housing to indicate compliance in the manufacture of a unit with the regulations established by the Housing Board when affixed to a Unit in conformance with this Resolution. All nonresidential structures manufactured after December 2, 1991, must display a Division of Housing insignia.

"INTERIM CHANGE" is a change made between the approval date and the expiration date.

"MANUFACTURER" means any person who constructs or assembles a manufactured residential or nonresidential structure in a factory or other off-site location. Manufacturers will be "Registered" based on the qualifications of quality control and "Certified" based on the performance of quality control.

"MODEL" is a specific design of factory-built units designed by the manufacturer, which is based on size, floor plan, method of construction, location arrangement and sizing of plumbing, mechanical or electrical equipment and systems therein in accordance with plans submitted to the Division of Housing.

"OCCUPIED" means a factory-built structure designed, built, modified, and/or used with the intent for individuals to enter.

"PRODUCTION INSPECTION" means the evaluation of the ability of the manufacturing facility to follow approved plans, standards, codes and quality control procedures during continuing production.

"PROHIBITED SALE NOTICE" means a printed notification issued by the Division of Housing for a structure providing that the unit may not be sold or offered for sale because of nonconformance(s) with §24-32-Part 33 C.R.S., as amended and these regulations.

218 "QUALITY CONTROL PROCEDURES" means procedures prepared by a manufacturer for 219 each of its manufacturing facilities and approved by the Division of Housing or Authorized 220 Inspection Agency describing the method that the manufacturer uses to assure units produced by 221 that manufacturer are in conformance with the applicable standards, codes, quality control 222 procedures and approved plans. 223 224 "A RED TAG NOTICE" is a physical identification that a particular unit has a life threatening 225 violation as set forth in §24-32-3302 (14). Units with life threatening deviations shall not be sold 226 or offered for sale in Colorado. 227 228 "UNIT" or "STRUCTURE" means a factory-built nonresidential structure that shall comply with these rules and regulations 229 230 231 **Section 3:** PROGRAM PARTICIPANTS 232 233 Other **States** 234 235 This program is open on a voluntary basis to all states with statutory authority to regulate 236 the design and construction of Factory Built Nonresidential Structures covered by this 237 Division of Housing Resolution. 238 239 Each state that wishes to participate in this program recognizes that they must enter into a 240 memorandum of understanding with Colorado to establish mutual recognition and 241 acceptance of codes and inspections. Areas of agreement include: 242 243 ? Acceptance of construction codes that are adopted by the State of Colorado 244

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- Housing Board for Factory Built Nonresidential Structures units sold into or offered for sale in Colorado. (See Schedule "B" in this Resolution).
- ? Acceptance of the design evaluation and approval performed by the Division of Housing or uthorized nspection gency for units sold into or offered for sale in Colorado.
- ? Performance of plant certifications and other inspection requirements. Routine inspections include performing inspections of at least one (1) unit in each phase of manufacturing and performing a minimum of a rough, final and other inspections and/or tests (as required in Schedule "B") when a production line process is not being utilized. Also to place the manufacturer on a higher frequency of inspection when it is unable to conform, on a continuing basis, to approved quality control procedures and or approved plans and standards.

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- ? Evaluation, at the manufacturing facility, of code compliance problems resulting from consumer complaints on labeled Colorado units; work with the manufacturer(s) in resolving such complaints by adequately following-up and assisting them in correcting the complaint issue(s), and their production and/or inspection process.
- ? Provide sixty (60) days notice before withdrawing from participation in the program, thereby allowing a manufacturer sufficient time to obtain a new Authorized Inspection Agency.

PARTICIPATING STATES OPERATING UNDER AN EXISTING STATE FACTORY BUILT NONRESIDENTIAL LAW HAVE THE OPTION TO ACT AS THE AUTHORIZED INSPECTION AGENCY WITHIN THEIR STATE. They are not required to change any of their state fees, laws, or regulations other than those changes, which may be necessary to allow them to agree to the above items. Manufacturers are required to be inspected by their host state when this state agrees to perform inspections on Colorado units.

Independent Authorized Inspection Agencies

This program is open on a voluntary basis to all Division approved independent Authorized Inspection Agencies with the capabilities to regulate the design and construction of Factory Built Nonresidential Structures covered by this Division of Housing Resolution.

Each independent Authorized Inspection Agency that wishes to participate in this program recognizes that they must be approved by the Division and establish mutual recognition and acceptance of codes and inspections. Areas of agreement include:

- ? Acceptance of construction codes that are adopted by the State of Colorado Housing Board for Factory Built Nonresidential Structures sold into or offered for sale in Colorado. (See Schedule "B" in this Resolution).
- ? Acceptance of the design evaluation and approval performed by the Division of Housing or authorized inspection agency for units sold into or offered for sale in Colorado.
 - . Acceptance and use of the Division of Housing "Performance Criteria for Monitoring the In-Plant Quality Control Systems of Factory Built Plant" for in-plant inspection agencies.

300 . Acceptance and use of the Division of Housing "Performance Criteria for 301 Factory Built Plan Review and Approval" standards for plan review 302 agencies. 303 304 ? Performance of plant certifications and other inspection requirements. Routine 305 inspections include performing inspections of at least one (1) unit in each 306 phase of manufacturing and performing a minimum of a rough, final and 307 other or inspections and/or tests (as required in Schedule "B") when a production line process is not being utilized. Also to place the manufacturer 308 309 on a higher frequency of inspection when it is unable to conform, on a continuing basis, to approved quality control procedures and or approved 310 plans and standards. 311 312 313 ? Performance of inspection requirements. Routine inspections include performing 314 inspections of at least a minimum of a rough, final and/or other inspections 315 and/or tests of Alternative Construction. Also to notify the Division when a manufacturer is unable to conform, on a continuing basis, to approved 316 317 plans, standards, and/or make appropriate corrections to construction code compliance issues. 318 319 320 ? Evaluation, at the manufacturing facility, of code compliance problems resulting 321 from consumer complaints on labeled Colorado units; work with the 322 manufacturer(s) in resolving such complaints by adequately following-up and assisting them in correcting the complaint issue(s) and their production 323 324 and/or inspection process. 325 326 ? Provide sixty (60) days notice before withdrawing from participation in the 327 program, thereby allowing a manufacturer sufficient time to obtain a new 328 Authorized Inspection Agency. 329 330 PARTICIPATING INDEPENDENT INSPECTION AGENCIES OPERATING UNDER AN 331 EXISTING CONTRACT WITH A MANUFACTURER OR LOCAL JURISDICTION WILL 332 ACT AS THE SOLE AUTHORIZED INSPECTION AGENCY FOR THAT PLANT 333 AND/OR LOCAL JURISDICTION. They are not required to change any of their company policies other than those changes, which may be necessary to allow them to 334 335 agree to the above items. Manufacturers are required to be inspected by their contracted independent Authorized Inspection Agency when approved by the Division. 336 337 338 339

341 **Manufacturers** 342 343 Any manufacturer of Factory Built Nonresidential Structures that are sold into, offered 344 for sale, and/or occupied in Colorado shall participate in this program and agree to 345 comply with the following: 346 347 ? All manufacturing facilities may have only one Authorized Inspection Agency for 348 plan review and one Authorized Inspection Agency for inspections that is not the 349 Division of Housing 350 351 ? All in-state manufacturers shall have the option to contract with an Authorized Inspection Agency or continue to use the Division of Housing as the 352 353 Authorized Inspection Agency to perform certifications, in-plant production 354 inspections, to evaluate their plant's quality control procedures, approve 355 manufacturer engineering manuals, and/or approve plant construction plans. 356 357 ? Out of state manufacturers are required to obtain the services of an Authorized 358 Inspection Agency to perform certifications, in-plant production 359 inspections, to evaluate the plant's quality control procedures, and may use the Authorized Inspection Agency to approve manufacturer engineering 360 361 manuals, and/or approve plant construction plans. 362 363 ? Out of state manufacturers located in states that have reciprocity or other agreements with the Division of Housing shall be notified if the state in 364 365 which they are located will continue to inspect Colorado units or if they have to obtain the services of a firm or corporation to perform certification 366 and in plant production inspections of Colorado units. 367 368 369 ? After notification that the state in which they are located will no longer inspect 370 Colorado units, manufacturers have (60) days to obtain another Authorized Inspection Agency. 371 372 373 ? Out of state manufacturers without existing plant certifications and located in 374 states that enter into an agreement with Colorado to inspect Colorado units, 375 shall use that state as the Authorized Inspection Agency to perform certifications, in-plant production inspections and evaluations of their 376 quality control procedures. 377 378 379 ? All manufacturers shall obtain prior approval from the Division of Housing or

Authorized Inspection Agency for all quality control manuals and plans

381	before manufacturing and affixing the Colorado and Authorized Inspection
382	Agency label(s) to units constructed under those approvals.
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384	? All manufacturers shall allow and pay for the reasonable costs incurred by the
385	Division of Housing for work related to retaining and evaluating their
386	performance and registration/certification status.
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388	? All manufacturers shall allow and pay for oversight inspections as required by the
389	Division of Housing or Authorized Inspection Agency to assure compliance
390	to the approved designs.
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392	? All manufacturers shall permit Division of Housing or Authorized Inspection
393	Agency monitoring personnel to review plans and to perform in plant and/or
394	field inspections.
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396	? All manufacturers shall correct any code violations in plans discovered by the
397	Division of Housing or by the Authorized Inspection Agency monitoring
398	personnel, or forfeit the right to have Division of Housing and Authorized
399	Inspection Agency labels affixed.
400	inspection (1801) the order difficults.
401	? All manufacturers shall correct any construction code violations within 20-days,
402	or forfeit the right to have Division of Housing labels affixed.
403	
404	? All manufacturers must provide the Division of Housing with a monthly
405	inspection report showing the Authorized Inspection Agency and the
406	Division of Housing label number(s), unit serial number(s), and the first
407	destination of shipped Units.
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409	? All manufacturers shall submit a fully completed and legible oversight
410	inspection data sheet to the Division prior to shipment of the Unit from the
411	factory.
412	inotory.
413	Manufacturer Registration, Certification, and Performance Requirements
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415	Manufacturers of Factory Built Nonresidential Structures that are manufactured, sold
416	into, offered for sale, and/or occupied in the State of Colorado must register with the
417	Division of Housing. Registrations are for a specific plant location, and are not
418	transferable to any other locations including those of the same manufacturer.
419	,
420	Where there is a change in ownership, address, or location of manufacture, the
421	manufacturer having Division of Housing certification shall notify the Division of

Housing within ten (10) working days of such a change. At such time the Division of Housing shall review the performance of the manufacturer and transfer or revoke the certification.

Plant certification is granted to a manufacturer's registered plant, based on adequate plant production performance, for a specific location, and is not transferable to other locations. Plant certification is a certification of the plant Quality Control QC) program and the quality control personnel that ensures construction code compliance. The Division shall be immediately notified of any changes to the QC program and/or personnel.

The manufacturer's quality control department shall do "no cover" inspections for all phases of construction on all units and witness all required tests, regardless of plant status.

At the time of plan submittal, *all* manufacturers are required to have Division of Housing approval, in writing, of the state, firm, corporation or entity that will conduct the certification and in-plant inspections of Colorado units. Additionally, manufacturers are also required to request approval of the Division of Housing thirty (30) days prior to any subsequent change of their Authorized Inspection Agency.

Upon Division of Housing approval of the Authorized Inspection Agency for production inspections, approved copies of the plans and quality assurance manual shall be sent to the manufacturer. Upon the manufacturer's receipt of the approved plans and manual, the Authorized Inspection Agency shall schedule plant production oversight inspections.

Registered plants shall be inspected for certification approval on an ongoing basis. Upon completion of certification inspections, a letter recommending plant certification and a copy of the certification inspection report shall be faxed by the Authorized Inspection Agency to the Division of Housing with a copy to the manufacturer. Upon receipt of this report, the Division of Housing will review it for completeness and accuracy. The manufacturer can then ship the certification unit(s) to Colorado for field inspection by the Division of Housing. After field inspection, the Division of Housing will notify the manufacturer if the unit has passed inspection and if the plant is certified or not certified.

Manufacturers are required to construct, on a continuing basis, Factory Built Nonresidential Structures in conformance with plans, quality control manual, codes, standards, and procedures prepared by them and approved by the Division of Housing or Authorized Inspection Agency. The certification of a plant is considered to be ongoing unless conditions warrant immediate removal of the certification. Conditions for removal of certification are:

463	? The change of an Authorized Inspection Agency or change in Authorized
464	Inspection Agency status.
465	
466	? The change of a plant location.
467	
468	? Where a plant has had Division of Housing and/or Authorized Inspection Agency
469	labels removed by the Authorized Inspection Agency pursuant to the
470	Division of Housing procedures.
471	
472	. Less than six Colorado certified Factory Built Nonresidential Structures
473	produced in a calendar year.
474	
475	Manufacturers demonstrating that they cannot perform within their approvals shall be
476	placed on a higher frequency of inspection until their performance improves. If their
477	performance does not improve, the manufacturer may have their Division of Housing
478	certification status revoked.
479	
480	In accordance with C.R.S. 24-32-3307, the State Director of Housing may pursue
481	injunctive relief against manufacturers that fail to construct units in accordance with their
482	approved plans and quality control manual, fail to correct code violations, fail to comply
483	with C.R.S. 24-32-Part 33, or fail to comply with these rules.
484	
485	Manufacturer Certification Status
486	
487	The initial plant certification will last until the end of the current plant registration period.
488	The ongoing plant certification period is one year. Each manufacturer is required to
489	resubmit their quality control manual (and when applicable, plans) for approval prior to
490	the registration/certification expiration date that is stamped on the quality control manual.
491	This shall be complied with regardless of when plans are approved or homes shipped.
492	Failure to comply with this requirement shall result in the plant having to comply with
493	the initial registration/certification inspection requirements.
494	
495	When a licensed professional stamps and signs plans or calculations, the same

plans for construction.

professional or the agency the professional works for, may not review and approve the

499 500 Section 4: **AUTHORIZED INSPECTION AGENCIES** 501 502 **Authorized Inspection Agency Approval** 503 504 All manufacturers that use an Authorized Inspection Agency to perform production 505 inspections, evaluate quality control procedures, approve engineering manuals, and/or 506 approve plans, shall have such agency, other than states, request approval from the 507 Division of Housing as an inspection agency for the State of Colorado. Request from 508 firms, corporations or other entities shall contain the following minimum requirements: 509 510 ? Name and address of agency making application. 511 512 ? Categories for which agency seeks approval. 513 514 ? A list of key personnel, with resumes, indicating their primary functions or duties. 515 516 ? The number of years the agency has actively engaged in the business for which they seek approval. 517 518 519 ? A statement by the agency that it will adhere to all the requirements of the 520 Division of Housing. 521 522 ? An explanation of the agency plan review, plant certification, and/or inspection 523 procedures, including copies of the quality assurance and other inspection 524 reports. 525 . A copy of the agencies ICC IAS or other Division approved accreditation 526 527 certificate as required. 528 529 . A copy of the Colorado professional Engineer or Architect certification for and 530 employee that will be responsible for plan review and approval work as 531 required. 532 533 . A copy of the Colorado professional license and/or International Code Council 534 (ICC) inspector certifications for all personnel that will be performing in-535 plant and/or field inspections as required. 536 537 ? Agree to furnish any other information that the Division of Housing may deem 538 necessary in order to properly evaluate and grant approval.

540	? A statement that the submitting firm, corporation or entity is independent and
541	does not have any actual or potential conflict of interest and is not affiliated
542	with, influenced by, or controlled by any present or potential client
543	manufacturer in any manner which might effect its capacity to render
544	service or reports of findings objectively and without bias.
545	
546	? The request must contain the signature of a responsible officer, owner, or partner
547	of the submitting agency.
548	
549	? A list of the factory built nonresidential manufacturers that are currently
550	inspected.
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552	Authorized Inspection Agencies may only work in the specific categories for which the Division
553	of Housing has granted approval in writing.
554	or reasons and grantous approval in writing,
555	Authorized Inspection Agency Qualifications
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557	An Authorized Inspection Agency shall have the following requirements. Any
558	exceptions shall have prior approval by the Division of Housing.
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560	? States - Must have existing statutory authority to regulate the design and
561	construction of Factory Built Housing.
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563	- Must also enter into a memorandum of understanding with Colorado.
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565	? <u>Units of Local Government</u> - Must have existing authority to adopt and regulate
566	building and construction codes.
567	building and construction codes.
568	- Must adopt a Division approved local ordinance or resolution.
569	Trust adopt a Bittiston approved total oraniance of resolution.
570	? <u>Firms, corporations or other entities</u> - Must currently be listed with a
571	national listing agency such as the ICC International Accreditation Service or other
572	Division approved agency.
573	Division approved agency.
574	After reviewing the request, the Division of Housing will notify the requesting firm,
575	corporation or entity of their acceptance or denial as an Approved Inspection Agency for
576	Colorado.
577	Colorado.
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Authorized Inspection Agency Quality Control and Reporting Requirements

Authorized Inspection Agencies shall conduct certifications, in-plant production inspections, in-plant evaluations of the plant's quality control procedures, review manufacturer engineering manuals, approve plant construction plans, and/or perform Alternative Construction field inspections, in accordance with Division of Housing approved procedures and documents.

The structure will be inspected to the approved plans, except where the plans are not specific, and then the inspection shall be to the standards. The Authorized Inspection Agency will also monitor the plant personnel performing the construction, testing, and inspections.

An Authorized Inspection Agency, when a plant is not certified, shall conduct a minimum of a rough, final, and other inspections as required per code (see Schedule "B") for all units manufactured.

The Authorized Inspection Agency shall notify the Division in writing when it is satisfied that the manufacturer is capable of consistently manufacturing units to the approved plans and codes. Upon successful completion of certification inspections, a letter recommending plant certification and a copy of the certification inspection report shall be faxed by the Authorized Inspection Agency to the Division of Housing with a copy to the manufacturer. Upon receipt of this report, the Division of Housing will review it for completeness and accuracy. The manufacturer can then ship the certification unit(s) to Colorado for field inspection by the Division of Housing. After field inspection, the Division of Housing will notify the manufacturer if the unit has passed inspection and if the plant is certified or not certified.

After the Division approves certified status for a plant, a minimum of one (1) phase of construction for each unit being produced for Colorado shall be inspected by the Authorized Inspection Agency. In the course of each visit, the inspector shall also make a complete inspection of every phase of production, systems testing, and of every unit in production as well as a random sampling of finished product on site.

Whenever the Authorized Inspection Agency finds that a manufacturer is unwilling or unable to conform on a continuing basis to the approved quality control procedures, and/or approved plans or standards, that manufacturing facility shall be placed on a higher frequency of inspection. The Division of Housing shall be notified and the certification labels held until the manufacturer demonstrates that they can perform within their approvals. If after three consecutive inspections, the last inspection still indicates that the manufacturer is not able to perform within their approvals or standards, all

622 remaining insignias paid for by the manufacturer will be returned to the Division of Housing and no further insignias issued until problems are resolved. The Authorized 623 624 Inspection Agency shall notify the Division of Housing of the action(s) taken. 625 626 Additional information, such as increased frequency and routine quality assurance 627 inspection reports, will be requested by the Division of Housing in order to review the 628 inspections conducted on specific units. 629 630 The Authorized Inspection Agency is required to provide its own inspection label so that 631 it, also, can be affixed adjacent to the Colorado certification label to each unit shipped to 632 Colorado. 633 634 **Division of Housing Monitoring of Authorized Inspection Agencies** 635 636 The performance of all Authorized Inspection Agencies shall be monitored by Division 637 of Housing to determine if they are fulfilling their responsibilities as required under this 638 program. 639 640 The monitoring activities carried out by the Division of Housing staff shall consist of: 641 642 ? Performing oversight inspections on nonresidential structures that are shipped to 643 Colorado. The purpose of these certification and other inspections are to 644 evaluate the performance of the manufacturer and inspection agency in 645 ensuring the selected units comply with approved plans and construction codes. 646 647 648 Based upon finding(s) of inadequate performance, the frequency of inspections may be increased as determined by the Division of Housing 649 650 procedures. 651 652 ? Reviewing all records of interpretations of the standards made by the Authorized 653 Inspection Agency to determine whether they are consistent and proper. 654 655 ? Reviewing inspection reports, records and other documents to assure that 656 Authorized Inspection Agencies are carrying out all their responsibilities as 657 set forth in the Division of Housing requirements. 658 659 ? Reviewing records to assure that the Authorized Inspection Agency is maintaining 660 proper label control and records pursuant to the requirements of this 661 program.

Frequency of Monitoring

An approved Authorized Inspection Agency shall be periodically monitored. Every aspect of all actions of the Authorized Inspection Agencies shall be reviewed at a frequency adequate to assure that they are performing consistently to the Division of Housing requirements.

Resolution of Code Interpretation Conflicts

The Division of Housing will, upon written request, investigate complaints related to adopted construction code interpretation and enforcement. A written request must identify the Authorized Inspection Agency, the location of the structure(s) in question, the nature of the dispute, the code section reference, and all involved parties with contact information. Upon receipt of the request, the Division will contact all parties for a written response to the issues. After any necessary follow-up, the Division will issue an interpretation to resolve the code dispute to all parties. The Division's interpretation may be appealed to the Colorado State Housing Board Technical Advisory Committee. The decision of the committee is final.

Section 5: MANUFACTURER APPLICATION AND PLAN SUBMITTAL

All manufacturers shall obtain prior approval of each set of designs from the Division of Housing or Authorized Inspection Agency before manufacturing and affixing the Colorado and Authorized Inspection Agency label(s) to unit(s) constructed under those plans.

Applications to the Division shall be made on forms supplied by the Division of Housing and shall be accompanied by the appropriate fees from Schedule "A" which is incorporated herein and made a part of these Rules and Regulations by reference.

Submittal for approval of quality control manuals and model plans shall meet or exceed the minimum requirements as specified by the Division of Housing.

All applications submitted shall be signed by an officer of the manufacturer that is in a responsible position with the authority to commit manufacturers to comply with the rules and regulations that govern the Colorado Factory Built Housing Construction Program.

The Division of Housing will grant or deny approval within twenty (20) working days of the receipt of a complete submittal with the appropriate fee and with the required number of copies. If a submittal is not completed within one hundred twenty days of the initial application date, the application shall expire and all fees shall be forfeited.

Expired applications must be resubmitted as new applications with new application forms, submittals and fees.

Approved plans and quality control manuals shall be evidenced by the stamp of approval of the Division of Housing or Authorized Inspection Agency. One approved copy shall be returned to the manufacturer and shall be retained at the place of manufacture. An approved copy shall be retained by the approving agency. Authorized Inspection Agencies shall send an additional approved copy to be kept on file with the Division of Housing. Interim changes, additions, or deletions will not be acceptable without prior approval of the agency that originally approved the plans.

All units, which are manufactured, sold, or offered for sale in the State of Colorado must display the Division of Housing and Authorized Inspection Agency insignias if applicable. These insignias certify that the unit is constructed in compliance with applicable codes and regulations adopted by the State Housing Board.

The granting of plan approval shall not be construed to be a permit or approval of any violation of the provisions of these regulations. All structures shall be subject to Division of Housing or Authorized Inspection Agency field inspection. The approval of the plans shall not prevent the Division of Housing or the Authorized Inspection Agency from requiring the correction of errors found in the plans or the unit itself, when found in violation of these regulations.

Approved copies of the quality control manual and plans shall be kept on file within the plant of manufacture for the purpose of construction and inspection by Division of Housing inspectors or the Approved Inspection Agency.

Plan approvals are granted to a manufacturer for a specific plant location and are not transferable to other locations including those of the same manufacturer.

Interim plan change approvals shall be required where the manufacturer proposes a change in structural, plumbing, heating, electrical, and/or fire life safety systems. Such changes shall become part of the approved plan unless the Division of Housing determines that the change constitutes a new model. If determined a new model, the interim change shall be processed as a new application. The difference in fees will be assessed.

The Division will approve unchanged plan renewals, previously approved by the Division, provided there has been no change in adopted codes and the plant General Manager certifies in writing that the plans are identical to those previously approved. The "Supplemental plan check fee" will apply. Should it be determined by the Division that plan changes have been made, the manufacturer will be subject to a Red Tag fee for every unit built to the changed plans and will conduct an investigation to ensure the code compliance of the units built.

When amendments to these regulations require changes to be made to an approved plan, the Division of Housing shall notify the manufacturer of the requirement and shall allow the manufacturer a reasonable time to submit revised plans for approval. Revised plans shall be processed as interim changes with the appropriate fees assessed.

Some building departments require a set of prints with the Colorado approval stamp. This can be addressed by requesting that additional prints be approved and provided to the Division at the time of original application. Appropriate fees must accompany requests for more than three approved plan sets. The Division will provide a Plan Submittal Checklist upon request.

Authorized Inspection Agency Plan Approval

Manufacturer's may, at their expense, use an Authorized Inspection Agency that has been approved by the Division for plan review and approval. Reference Section 4 of these Rules and Regulations.

Section 6: PLANT/PLAN/QUALITY CONTROL REGISTRATION/CERTIFICATION EXPIRATION DATE

The initial plant certification will last for the existing plant registration period. Each manufacturer is required to resubmit their quality control manual (and when applicable, plans) for approval prior to the registration/certification expiration date that is stamped on the quality control manual. Failure to comply with this requirement shall result in the plant having to comply with the initial registration/certification inspection requirements.

The certification expiration date for all plants is determined by the expiration date that is stamped on the quality control manual. Plans that are submitted at the time of certification and/or within the certification period shall have the same certification expiration date as the quality control manual.

785 It shall be the responsibility of the manufacturer to submit to the Division of Housing or 786 Authorized Inspection Agency an application for plan and quality control manual 787 approval thirty (30) days prior to the expiration date. 788 789 Section 7: PLANT PRODUCTION AND INSPECTION FEES 790 791 The Division of Housing and/or the Authorized Inspection Agency shall conduct 792 certification and production inspections of all manufacturers engaged in the 793 manufacturing or offering for sale of Factory-Built Nonresidential Structures in the State 794 of Colorado. This inspection shall include the quality control program and systems 795 testing. 796 797 ? The fees for Division of Housing inspections are shown in Schedule "A". 798 799 ? The cost of Division of Housing inspections are not refundable. 800 801 At the time of initial certification and upon each request to renew certification, all 802 manufacturers must submit a copy of I. R. S. Form W-9 (request for taxpayer identification number and certification) to the Division of Housing. 803 804 805 Section 8: POSTED UNITS 806 807 Whenever an inspection reveals that a unit fails to comply with any provision of these 808 rules and regulations, the Division of Housing or the Authorized Inspection Agency may 809 post such a unit with a Prohibited Sale Notice/Red Tag Notice. 810 811 **Prohibited Sale Notice** 812 813 When a unit is posted with a Prohibited Sale Notice, the Division of Housing or the Authorized Inspection Agency will notify the affected parties that the structure contains a 814 815 violation(s). The affected parties must resolve the prohibited sale issues with the agency that posted the unit. 816 817 818 ? A unit posted with a Prohibited Sale Notice, shall not be sold or offered for sale in 819 the State of Colorado, nor shall the unit be moved or caused to be moved 820 without the prior written approval of the Division of Housing or Authorized 821 Inspection Agency. 822 823 ? Within five (5) working days, the affected parties or their agents shall notify, in

writing, the Division of Housing or the Authorized Inspection Agency of the action taken to correct the violation(s) and what steps have been taken by

824

826 management to preclude the recurrence of the violation(s). Failure to 827 respond within five (5) days may cause revocation of an affected parties 828 status. 829 830 ? All units posted with a Prohibited Sale Notice shall be corrected or removed from 831 the state (with prior written approval of the Division of Housing or 832 Authorized Inspection Agency). All units that are corrected shall be 833 reinspected to assure compliance with the codes and regulations. A 834 reinspection fee will be assessed. 835 836 **Red Tag Notice** 837 838 A Red Tag Notice is a physical identification that a particular unit has a life threatening 839 violation. When a unit is posted with a Red Tag Notice, the Division of Housing or the 840 Authorized Inspection Agency inspector will notify the affected parties that the unit 841 contains a life threatening violation(s). The affected parties must resolve the Red Tag 842 issue(s) with the agency that posted the unit. 843 844 ? A unit posted with a Red Tag Notice shall not be sold or offered for sale in the 845 State of Colorado. 846 ? All units that are corrected shall be reinspected to assure compliance with the 847 848 codes and regulations. A reinspection fee will be assessed. 849 850 Prohibited Sale Notices/Red Tag Notices shall be removed only by an authorized 851 representative of the Division of Housing or Authorized Inspection Agency. 852 853 Section 9: REVOCATION OF PLANT CERTIFICATIONS 854 855 The Housing Board may revoke a plant certification after notice and hearing pursuant to 856 Section 24-4-104 & 24-4-105, C.R.S., whenever a manufacturer has violated any 857 provision of these regulations or when a plant certification was granted in error, on the 858 basis of incorrect information supplied by the applicant. 859 860 Judicial review of plant certification revocation actions shall be governed by Section 24-861 4-106, C.R.S. 862 863 864

Section 10: DENIAL OF PLANT REGISTRATION/CERTIFICATION The Division of Housing may deny an application for plant registration, certification, or re-certification if an applicant manufactures any unit in violation of approved plans or these rules and regulations. In addition, as a condition of registration, certification, or recertification, the Division of Housing may impose any of the following conditions for registration, certification, or re-certification:

- ? Revision of the manufacturer's Quality Control Program.
- ? Identification by model and serial number of each unit to be offered for sale in Colorado.
- ? Inspection of each unit prior to affixing certification insignias.
- ? Inspection of the manufacturer's plant (with the cost of inspection borne by the manufacturer).
 - Resolution of previous violations and/or unpaid fees.
- ? Any combination of above or other action as determined necessary to insure future compliance with these regulations.

The Division shall promptly notify the applicant of the denial or condition imposed. The applicant may, within sixty (60) days following such action, request a hearing before the Housing Board. If requested, a hearing shall be conducted pursuant to Section 24-4-105, C.R.S. Thereafter, the final decision of the Housing Board shall be subject to judicial review in accordance with Section 24-4-106, C.R.S.

Section 11: CERTIFICATION INSIGNIA APPLICATION AND REPORTS

Registered (non-certified) and certified manufacturers must submit an application for Colorado insignias on forms provided by the Division of Housing with the appropriate fees from Schedule "A".

Insignias for registered manufacturers will be held by the Division of Housing or Certified Authorized Inspection Agency and affixed to each unit upon final inspection approval by the Division or Certified Agency.

906 Insignias for certified manufacturers will be mailed to the manufacturer and shall be 907 affixed to Colorado certified units upon final approval by the manufacturer's quality 908 control manager. 909 910 Insignias are assigned for use at a specific plant location and shall not be transferable or 911 used on an unapproved model. Colorado certification insignias issued for one type of 912 certification may not be used on a unit of another (different) type. A 3"x5" primary 913 insignia, documenting manufacturer and unit design information, is required. 914 The primary Insignia must be permanently affixed on the exterior hitch end of the unit or 915 916 in a readily visible location, such as near the electrical panel, prior to units being removed 917 from the plant. 918 919 The manufacturer shall legibly stamp the unit serial number, date of manufacture, wind 920 design speed, roof design load, fire rating, occupancy, and construction codes on the 921 primary insignia. 922 923 Insignia reports shall be submitted by the manufacturer to the Division of Housing by the 924 first of each month on forms or copies of forms supplied by the Division of Housing. An 925 insignia report is required when the manufacturer has insignias outstanding during that 926 period. Manufacturers are also required to provide the Division of Housing a copy of 927 their monthly production report. 928 929 930 Corrected or delinquent insignia reports may be required prior to the issuance of 931 additional insignias. 932 933 Primary Insignias are to be affixed in consecutive order. 934 935 Colorado insignias shall remain the property of the State of Colorado and may be 936 confiscated by the Division of Housing upon any violation of this resolution. Defaced, 937 marked in error, or voided insignias shall be returned to the Division of Housing without 938 refund. 939 940 Colorado insignias shall be stored in a safe and secure location approved by the Division 941 or Authorized Inspection Agency. 942 943 A Notification of Oversite Inspection Data Sheet form shall be completed and submitted

to the Division of Housing prior to the shipment of every Colorado unit.

944

l 6	Factory Built Structures shall not be	modified, prior to or during, installation at a site
17	without approval from the Division of	of Housing.
18		
19		
50		
51	SECTION 12: IRREGULARITIES	
52		
53	Any and all irregularities in these Rules and	Regulations shall not be justification for producing
54	any Unit without proper inspections and in v	iolation of the adopted construction codes.
55		
66		
57		
8	6/3/09	
9	ATTEST:	
0		
51		
52		
53	Teresa Duran, Acting Director	Theo Gregory, Chairperson
54	Colorado Division of Housing	Colorado State Housing Board
55 56		
7	Date	Date

968 969	SCHEDULE "A" FEE SCHEDULE						
970 971 972 973	All fees, except inspection and oversight fees, are due in advance and must accompany the application. Fees shall not be subject to refund.						
974 975	1.	Annual Plan	nt registration fee	e:	\$	250.00	
976 977	2.	Annual Insp	pection Agency r	registration fee:	\$	250.00	
977 978 979 980	3.	Plan checki	ng fees (maximu	um 3-sets): Finished spa Unfinished s		0.25 per sq. ft. (\$160 min 0.10 per sq. ft.	ι.)
981 982 983	4.	Certification	n insignia fee:	Primary Insignia- Additional Floor Tag		100.00 100.00	
984 985 986	5.	5. Supplemental plan check fee (revisions, duplicate sets etc.): \$0.10 per sq. ft. (\$50 min.) Note: Fee for revisions to be calculated based on space revised.					.)
987 988	6.	Oversight p	lan check fee:		\$	0.15 per sq. ft. (\$100 min	ı.)
989 990 991 992 993	7.	Waiver of fees for Government Assisted Housing; with State Housing Board concurrence, the Division of Housing may waive plan review and unit certification fees for units to be subsidized under local, state or federal housing programs for low-income households.					
994 995	8.	Inspection 1	ees:				
996 997		A.	Plant certificati	ion inspection fee:	\$350.00	per inspector per trip	
998 999		В.	Oversight inspe	ection fee:	\$230.00	per inspector per trip.	
1000 1001 1002 1003 1004 1005 1006 1007		C.	lodging, parking and travel. Out of-State: \$	0 per hour, per inspectors, car rental, etc. as all 650.00 Hour/per inspec	owed in st	expenses of travel, food, ate fiscal rules for per die ip expenses of travel, foo ate fiscal rules for per die	em od,
1008		D.	Prohibited Sale	e/Red Tag fee:		\$250.00	

1009		SCHEDULE "B"						
1010								
1011								
1012	The State Housing Board adopts the following nationally recognized codes as the "Colorado							
1013	Consti	ruction Safety Code for Factory-Built Housing".						
1014								
1015	_							
1016	Factor	ry-Built Nonresidential Construction Code of the State of Colorado						
1017	G1 11 1							
1018	Shall b	De:						
1019 1020	1	The International Puilding Code, 2006 Edition, published by the International Code						
1020	1.	The International Building Code, 2006 Edition, published by the International Code Council, Inc.						
1021	2	The International Residential Code, 2006 Edition, published by the International Code						
1022	۷.	Council, Inc.						
1023	3	The International Mechanical Code, 2006 Edition, published by the International Code						
1025	5.	Council, Inc.						
1026	4	The International Plumbing Code, 2006 Edition, published by the International Code						
1027	•••	Council, Inc.						
1028	5.	The National Electric Code, 2008 Edition, published by the National Fire Protection						
1029		Association, Inc.						
1030	6.	The International Fuel Gas Code, 2006 Edition, published by the International Code						
1031		Council, Inc.						
1032	7.	The International Energy Conservation Code, 2006 Edition, published by the						
1033		International Code Council, Inc. effective until June 30, 2010.						
1034	8.	The International Energy Conservation Code, 2009 Edition, published by the						
1035		International Code Council, Inc. effective July 1, 2010.						
1036								
1037		tion Period: Manufacturers shall be permitted to use the construction codes in effect prior						
1038	to the	adoption of this resolution for a maximum of 90-days after this resolution takes effect.						

AMENDMENTS:

The following amendments by addition, deletion, revision and exceptions are made:

 Section 310, R-3, Add new sentence at the end:

INTERNATIONAL BUILDING CODE:

A single building or structure where 5 or less adults sleep at any time (commercial worker housing) may comply with the International Residential Code as a dwelling provided there is no mixed occupancy and there is permanently affixed signage in the immediate vicinity of sleeping rooms that states "No more than 5-adults may sleep at any time in this building".

Section 901.5.1 Add the following Section:

Special inspector required. All fire protection systems required by this Chapter shall be inspected and approved by a special inspector. The inspector shall be an employee of the fire department having jurisdiction or another qualified individual with prior approval of the Colorado Division of Fire Safety. Inspections and approvals will be regulated under Chapter 17 of this Code.

Section 907, Amend title to: "Single and multiple station alarms" and add subsections:

907.2.10.5 Carbon monoxide alarms. In new construction, dwelling units within which fuelfired appliances are installed or have an attached garage, shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area within 15 feet of the bedroom(s).

907.2.10.5.1 Alarm requirements. The required carbon monoxide alarms shall be clearly audible in all bedrooms over normal background noise levels with doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms

907.2.10.6 Separate circuits prohibited. Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for Smoke and/or Carbon Monoxide alarms.

Section 1507.1.1, Ice Dam Membrane Required is amended to read:

Ice dam protection is required where stated throughout Section 1507 due to a history of ice forming along eaves in Colorado. Regardless of roof slope or material, when the snow load is above sixty five pounds per square foot (65lb./sq.ft.), roofing underlayment shall be two layers of Type 15 felt applied shingle fashion and solid mopped together with approved cementing material between the plies, or 40 mil listed self adhering roofing membrane and shall be installed extending from the eave up the roof to a point 8 feet 6 inches inside the exterior wall line of the building and shall extend continuously to a point 4 feet from any valley, cricket or similar construction junctions with roofs. The ice dam membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering.

Section 1608.2, Ground Snow Load is amended to read:

Roof Snow Load (Pf) design criteria shall be in accordance with the local jurisdiction requirements. The minimum roof snow load shall be 30 PSF and the allowable increase for snow duration shall not be used when the snow load is above 65 PSF.

Section 1609.1.1. Add the Following:

Wind Load design criteria shall be in accordance with the local jurisdiction requirements. The minimum Wind load design criteria shall be 90 MPH, Exposure C, unless otherwise justified.

Section 2111.1.1. New Fireplaces – Add the following section:

Every new fireplace shall have permanently installed one of the following:

1108 1. Approved gas logs.

- 1109 2. Other approved gas or alcohol specific appliances.
- An approved fireplace insert meeting the most stringent emission standards for wood stoves established under State statute and/or regulations promulgated by the State Air Quality Control Commission (AQCC) as of the time of installation of the fireplace; or
- 4. A solid fuel burning device which is exempt from and not eligible for certification under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which has been tested to demonstrate its emission performance is in accordance with criteria and procedures not less stringent than those required by the U.S. EPA and/or AQCC for wood stoves manufactured after July 1, 1990.

INTERNATIONAL RESIDENTIAL CODE:

Section R105.2, Work exempt from permit. Building:

Item #1. Change 120 square feet to 200 square feet

TABLE R301.2(1) IS AMENDED TO READ:

snow duration shall not be used when the snow load is above 65 PSF.

ROOF SNOW LOAD ¹	WIND SPEED (mph) ¹	SEISMIC DESIGN CATEGORY	Subject to Damage From			WINTER DESIGN TEMP ²	ICE BARRIER UNDERLAY MENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX ³	
			WEATHER	FROST LINE DEPTH ^a	TERMITE					
MIN.	MIN. 90 mph,			PER			PER	YES	PER	PER
30 psf	Exp. C	В	SEVERE	LOCAL	SLIGHT		LOCAL		LOCAL	LOCAL

1132 (1) The roof snow load and wind speed shall be in accordance with the local jurisdiction requirements and shall not be less than the minimums stated. The allowable increase for

(Base 32° Fahrenheit)" at www.ncdc.noaa.gov/fpsf.html.

Table R301.5 – Live Loads

...add footnote (j) to Decks, Exterior balconies, Fire escapes:

⁽²⁾See Attachment A and verify with local jurisdiction..

^(j)When the snow load is above 65 psf, the minimum uniformly distributed live loads for exterior balconies, decks and fire escapes shall be as required for roof snow loads.

(3) See the National Climatic Data Center data table "Air Freezing Index-USA Method

Section 313, Amend title to: "Alarms" and add subsections:

R313.1.1 Carbon monoxide alarms. In new construction, dwelling units within which fuel-fired appliances are installed or have an attached garage, shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area within 15 feet of the bedroom(s).

1154
1155 **R313.1.2 Alarm requirements.** The required carbon monoxide alarms shall be clearly audible in all bedrooms over normal background noise levels with doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms

R313.2 Add new sentence at the very end:

Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for Smoke and/or Carbon Monoxide alarms.

Section R802.10 Wood trusses.

...add new section:

R802.10.6 Marking. Each truss shall be legibly branded, marked, or otherwise have permanently affixed thereto the truss identification as shown on the truss design drawing located within two (2) feet of the peak of the truss on the face of the top chord.

Section R905.1 – Roof Covering Application

1178 ...add subsection:

R905.1.1 Ice dam membrane required. Ice dam protection is required, where stated throughout Section R905, due to a history of ice forming along eaves in Colorado. An ice dam protection underlayment that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall extend from the eave's edge to a point at least 24 inches inside the exterior wall line of the building. For snow loads above 65 psf, the ice dam membrane shall be extended from the eave to a point 8 feet 6 inches inside the exterior wall line, and shall extend continuously to a point 4 feet from any valley, cricket or similar construction junction with roofs. The ice dam membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering.

Section R1004.4, G2406.2 exception 3 and 4, G2425.8 #7, G2445; Delete all and add:

Unvented fuel fired room heaters are prohibited.

1195	Section R1004.5 – Fireplaces
1196	
1197	add:
1198	
1199	Every new fireplace shall have permanently installed one of the following:
1200	
1201	1. Approved gas logs;
1202	
1203	2. Other approved gas or alcohol specific appliances;
1204	
1205	3. An approved fireplace insert meeting the most stringent emission standards for wood
1206	stoves established under State statute and/or regulations promulgated by the State Air
1207	Quality Control Commission (AQCC) at the time of installation of the fireplace; or
1208	
1209	4. A solid fuel burning device which is exempt from and not eligible for certification
1210	under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which
1211	has been tested to demonstrate its emission performance is in accordance with criteria
1212	and procedures not less stringent than those required by the U.S. EPA and/or AQCC for
1213	wood stoves manufactured after July 1, 1990.
1214	
1215	Chapter 11 – ENERGY EFFICIENCY
1216	
1217	Replacement Date:
1218	
1219	On July 1, 2010 the entire chapter is to be deleted and replaced with Chapter 11 of the 2009
1220	International Residential Code.
1221	
1222	add new sentence:
1223	
1224	N1101.1 Scope. An approved "Zero-Energy Building" is exempt from the provisions of this
1225	Chapter 11.
1226	
1227	Section M2001.1 - Installation
1228	
1229	is amended to add the following sentence:
1230	
1231	All rooms or spaces containing boilers shall be provided with a floor drain and trap primer.
1232	

Section G2417.4.1 Test pressure 1236

...is amended as follows:

The test pressure to be used shall be not less than one and one half times the proposed maximum working pressure, but not less than 10 psig (69 kPa gauge), irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

Electrical Sections

Delete Chapters 33 through 42.

INTERNATIONAL FUEL GAS CODE:

Section 303.3 Prohibited locations.

...Add Item:

Number 6. LPG appliances. LPG appliances shall not be installed in a pit, basement or crawl space where unburned fuel may accumulate unless an approved sensing device is installed in conjunction with an automatic shutoff valve at the tank.

Delete Exception Numbers 3 and 4.

Section 406.4.1 Test pressure.

...amend to read:

The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, but not less than 10 psig (20 kPa gauge), irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. Welded gas and medium pressure piping (14 inch water column or greater) shall be tested at a minimum of 60 psi.

Section 601.1. Scope. Add the following sentence: Approved and listed gas logs shall be installed in new solid fuel burning fireplaces when required by Sections 2111.1.1 of the International Building Code amended effective January 1, 2004. Section 621 Unvented room heaters. Amend to read: Unvented fuel fired room heaters are prohibited. **INTERNATIONAL PLUMBING CODE:** The following Appendix Chapters to the International Plumbing Code, 2006 Edition, are hereby adopted. **Appendix Chapter D** – Degree Day and Design Temperatures for Cities in the United States. **Appendix Chapter E** – Sizing of water piping systems. No other appendix chapters are adopted. INTERNATIONAL MECHANICAL CODE: Add the following Sections – Section 303.3.1 LPG appliance. LPG appliances shall not be installed in a pit, basement or crawl space where unburned fuel may accumulate unless an approved sensing device is installed in conjunction with an automatic shut-off valve at the LPG tank. **Section 903.1 General.** Add sentence: Every new installation of a solid fuel-burning, vented decorative appliance or room heater shall meet the most stringent emission standards for woodstoves established under State statute and/or regulations promulgated by the State Air Quality Control Commission as of the time of installation of the appliance for room heater. (Effective January 1, 1991 – CC90-617.)

1315		
1316		Section 903.3is amended to read as follows:
1317		
1318		Unvented gas log heaters are prohibited.
1319		
1320		INTERNATIONAL ENERGY CONSERVATION CODE
1321		
1322		Section 101.2.1 Exempt Buildings.
1323		
1324		add exemption:
1325		
1326		101.2.1.3 Zero-Energy Buildings. Zero energy buildings are exempt from the
1327		provisions of the International Energy Conservation Code.
1328		
1329		Section 202 – Definitions
1330		
1331		add definition:
1332		
1333		ZERO-ENERGY BUILDING. A building with zero net energy consumption and zero
1334		carbon emissions annually as certified by an approved annual energy use analysis.
1335		
1336		
1337	NAT	IONAL ELECTRIC CODE:
1338		
1339		following amendments by addition, deletion, revision and exceptions are made to the
1340	Natio	onal Electrical Code, 2008 Edition, for use with all Factory Built units:
1341		
1342	1.	Article 406.8(C), (1) Shower or Bathroom space. Receptacle outlet shall not be installed
1343		in or within 30 inch (762 mm) of a shower or bathtub base.
1344	_	
1345	2.	Article 545, Manufactured Buildings, is amended to include: 545.14. Testing.
1346		
1347		(A) Dielectric Strength Test. The wiring of each factory built unit shall be subjected to
1348		a 1-minute, 900-volt AC or 1273-volt DC dielectric strength test (with all switches
1349		closed) between live parts (including neutral) and the ground. Alternatively, the
1350		test shall be permitted to be performed at 1,080-volts AC or 1527-volts DC for 1
1351		second. This test shall be performed after branch circuits are complete and after
1352		wiring devices are installed and wiring properly terminated.
1353		Exception 1: Listed fixtures or appliances shall not be required to withstand the
1354		dielectric strength test.

1355	Exception 2: Units wired in Electrical Metallic Tubing or Rigid Metal Conduit.
1356	
1357	(B) Continuity and Operational Tests and Polarity Checks. Each manufactured building
1358	shall be subjected to:
1359	
1360	(1) An electrical continuity test to ensure that all exposed electrically conductive
1361	parts are properly bonded;
1362	
1363	(2) An electrical operational test to demonstrate that all equipment, except water
1364	heaters and electric furnaces, is connected and in working order; and
1365	
1366	(3) Electrical polarity checks of permanently wired equipment and receptacle
1367	outlets to determine that connections have been properly made.
1368	
1369	These tests shall be performed after branch circuits are complete and after wiring
1370	devices are installed and wiring properly terminated.
1371	
1372	
1373	3. Article 320.23(A). Add a new sentence at the end:
1374	
1375	Substantial guard strips shall be provided to protect wiring within three (3) feet of the marriage
1376	line where the attic is exposed and the roof is completed on-site, such as a hinged roof. See
1377	Article 320 23(A)

1380		DEGI	REE DAYS AN	D DESIGN	TEMPERA	TURES	
1381		F	OR COLORAI	OO CITIES	S AND TOW	'NS	
1382							
1383			Heating	Design	Temperature	s°F	Elevation
1384	Loca	tion	Degree Days	Winter	Sumn	ner	(feet)
1385				971/2%	DB 2½%	WB 2½%	above sea
1386	1	Alamosa	8749	-16	82	61	7546
1387	2	Aspen	9922	-1	81	59	7928
1388	3	Boulder	5554	2*	91	63	5385
1389	4	Buena Vista	8003	-1	83	58	7954
1390	5	Burlington	6320	2	95	70	4165
1391	6	Canon City	4987	8	90	64	5343
1392	7	Cheyenne Wells	5925	1	97	70	4250
1393	8	Colorado Springs	6415	2	88	62	6012
1394	9	Cortez	6667	5	88	63	6177
1395	10	Craig	8403	-14	86	61	6280
1396	11	Creede	11375	-18	80	58	8842
1397	12	Del Norte	7980	-4	81	60	7884
1398	13	Delta	5927	6	95	62	4961
1399	14	Denver	6020	1	91	63	5283
1400	15	Dillon	11218	-16	77	58	9065
1401	16	Dove Creek	7401	-6	86	63	6843
1402	17	Durango	6911	4	87	63	6550

ATTACHMENT "A"

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

-11

-7

Eagle

Estes Park

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

¹⁴⁰⁹ Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

^{1411 *} Per Local. 8° per 1985 ASHRAE

1413		F	OR COLORAI	OO CITII	ES AND TOV	VNS	
1414							
1415			Heating	Desig	n Temperature	es°F	Elevation
1416		Location	Degree Days	Winter	Sumr	ner	(feet)
1417				971/2%	DB 2½%	WB 2½%	above sea
1418	20	Ft. Collins	6368	-4	91	63	5001
1419	21	Ft. Morgan	6460	-5	92	65	4321
1420	22	Fraser	9777	-22	76	58	8560
1421	23	Glenwood Springs	7313	5	91	63	5823
1422	24	Granby	9316	-			7935
1423	25	Grand Junction	5548	7	94	63	4586
1424	26	Greeley	6306	-5	94	64	4648
1425	27	Gunnison	10516	-17	83	59	7664
1426	28	Holyoke	6583	-2	97	69	3746
1427	29	Idaho Springs	8094	0	81	59	7555
1428	30	Julesburg	6447	-3	98	69	3469
1429	31	Kit Carson	6372	-1	98	68	4284
1430	32	Kremmling	10095	-19	85	59	7359
1431	33	La Junta	5263	3	98	70	4066
1432	34	Lamar	5414	0	98	71	3635
1433	35	Last Chance		-2	92	65	4790
1434	36	Leadville	11500	-4	81	55	10,152
1435	37	Limon	6961	0	91	65	5366
1436	38	Longmont	6443	-2	91	64	4950
1437	39	Meeker	8658	-6	87	61	6347
1438	40	Montrose	6383	7	91	61	5830
1439	41	Ouray	7639	7	83	59	4695
1440							

DEGREE DAYS AND DESIGN TEMPERATURES

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

¹⁴⁴³ Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

1773							
1446			EEE DAYS AN				
1447		F	OR COLORAI	OO CITII	ES AND TOV	VNS	
1448							
1449			Heating	Desig	n Temperatur	es°F	Elevation
1450		Location	Degree Days	Winter	Sumi	mer	(feet)
1451				971/2%	DB 2½%	WB 2½%	above sea
1452	42	Pagosa Springs	8548	-9	85	61	7079
1453	43	Pueblo	5413	0	95	66	4695
1454	44	Rangely	7328	-8	93	62	5250
1455	45	Rifle	6881	0	92	63	5345
1456	46	Saguache	8781	-3	82	61	7697
1457	47	Salida	7355	-3	84	59	7050
1458	48	San Luis	8759	-10	84	60	7990
1459	49	Silverton	11064	-13	77	56	9322
1460	50	Springfield	5167	3	95	71	4410
1461	51	Steamboat Springs	9779	-16	84	61	6770
1462	52	Sterling	6541	-2	93	66	3939
1463	53	Trinidad	5339	3	91	65	6025
1464	54	Uravan		8	97	63	5010
1465	55	Vail	9248	-14	78	59	8150
1466	56	Walden	10378	-17	79	58	8099
1467	57	Walsenburg	5438	1	90	63	6220
1468	58	Wray	6160	-1	95	69	3560
1469	59	Yuma	5890	-2	95	69	4125
1470							

1471 Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

¹⁴⁷² Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

¹⁴⁷³ Handbook (See 2006 IPC appendix D).

Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

101	RESOLUTION #36
102	
103	ON-SITE CONSTRUCTION AND SAFETY CODES FOR MOTELS, HOTELS
104	AND MULTI-FAMILY DWELLINGS IN THOSE AREAS OF THE STATE WHERE NO
105	SUCH STANDARDS EXIST
106	
107	BE IT RESOLVED BY THE STATE HOUSING BOARD OF THE STATE
108	OF COLORADO;
109	
110	THAT PURSUANT TO §24-32-3301 et seq, C.R.S. as amended, the State Housing
111	Board of the State of Colorado (the "Housing Board") repeals and readopts Resolution #36; and
112	
113	THAT PURSUANT TO \$24-32-3301 et seq, C.R.S. as amended, the State Housing
114	Board adopts the nationally recognized codes as cited in SCHEDULE 'B" as the "Colorado
115	Construction Safety Code for hotels, motels, and multi-family dwellings built in areas of the state
116	where no such standards exist including the renovation of dwelling units that are the Division of
117	Housing responsibility"; and
118	
119	THAT PURSUANT TO \$24-32-3301 et seq, C.R.S. as amended, the State Housing
120	Board states the basis and purpose of these rule changes is to update the current minimum
121 122	construction and safety code for "hotels, motels, and multi-family dwellings in areas of the state
122	with no local building codes"; and
123	The State Housing Board states that these rules do not include later amendments to
124	or editions of the nationally recognized code; and
125	of editions of the nationally recognized code, and
127	The Colorado Housing Board repeals and readopts these rules and regulations to be
128	administered and enforced by the Colorado Division of Housing (the Division of
129	Housing).
14)	110401115).

130		RULES AND REGULATIONS
131	G	4 CCOPT
132	Section	on 1: SCOPE
133	E	hatal motal and multi family devalling in areas of the state with no local building and as
134 135	•	hotel, motel, and multi-family dwelling, in areas of the state with no local building codes, constructed or renovated after the effective date of these regulations must have a building
136		t, be inspected, and issued a certificate of occupancy by the Division of Housing, certifying
137		the unit is constructed in compliance with the standards adopted in Schedule "B," which is
138		porated herein and made a part of these Rules and Regulations by reference, and all other
139		ements set forth by this resolution.
140	requir	ements set forth by this resolution.
141	The S	tate Housing Board states that the Program Manager, Housing Technology and Standards
142		on, Colorado Division of Housing, 1313 Sherman Street, Room 321, Denver,
143		ado 80203, will provide information regarding how the nationally recognized code may be
144		ned or examined. Incorporated material may also be examined at any state public library.
145		
146	Section	on 2: DEFINITIONS
147		
148	(1)	"CERTIFICATE OF OCCUPANCY" is a certificate stating at the time of issuance the
149		structure was built in compliance with all applicable codes and construction
150		standards as adopted by the State Housing Board.
151		
152	(2)	"CORRECTION NOTICE" is a notice indicating that a structure contains non-
153		compliance(s) to the adopted code that is not life threatening, but may require
154		correction prior to sign off of specific inspection requested.
155	(2)	
156	(3)	"EQUIPMENT" means all materials, appliances, devices, fixtures, fittings and apparatus
157		used in the construction, plumbing, mechanical and electrical systems of a
158		structure.
159	(4)	"INTEDIM CITANCE" mans any shange made between the approval data and the
160 161	(4)	"INTERIM CHANGE" means any change made between the approval date and the
162		expiration date.
163	(5)	"MULTI-FAMILY" means a structure containing three or more dwelling units or a bed
164	(3)	and breakfast dwelling that has six or more guest rooms.
165		and oreaktast awening that has six of more guest rooms.
166	(6)	"PLAN" is a specific design of a hotel, motel, or multi-family dwelling designed by the
167	(-)	owner/developer, which is based on size, floor plan, method of construction,
168		location arrangement and sizing of plumbing, mechanical or electrical equipment
169		and systems therein in accordance with plans submitted to the Division of Housing.

6/3/09

171 172	(7)	"STRUCTURE" means a hotel, motel, or multi-family dwelling structure that shall comply with these rules and regulations.
173	a	A DY AN ADDROVAL
174	Sectio	on 3: PLAN APPROVAL
175 176 177	(1)	All owner/developers shall make application to the Division of Housing for plan approval prior to construction.
178		r
179 180	(2)	Applications shall be made on forms supplied by the Division of Housing:
181 182 183		A. Submittal for approval of specifications and plans shall meet or exceed the minimum requirements as specified by the Division of Housing.
184 185		B. All applications submitted shall be stamped by an architect and/or engineer.
186 187	(3)	The Division of Housing will grant or deny approval within twenty (20) working days of the receipt of complete submittal and with the required number of copies.
188 189 190		A. If a complete application, specifications and plans are not submitted within one hundred twenty days of the original application date, the application
191 192		shall expire.
193 194 195		B. Expired applications must be resubmitted as new applications with new application forms and submittals.
196 197 198	(4)	Approved plans and specifications shall be evidenced by the stamp of approval of the Division of Housing. One approved copy shall be returned to the owner/developer and shall be retained at the job site. An additional approved copy shall be kept on
199 200		file with the Division of Housing. Interim changes, additions, or deletions will not be acceptable without prior approval of the Division of Housing.
201202203	Sectio	on 4: APPLICATIONS
204 205 206	(1)	All structures, as defined above, which are constructed or renovated in areas of the state with no local building codes must have a plan approved by the Division of Housing.
207 208 209 210	(2)	Plan approvals are granted to an owner/developer for a specific site location and are not transferable to other locations.

211212213	(3)	Approved copies of the specifications and plans shall be kept on the job site by the owner/developer for the purpose of construction and inspection by Division of Housing inspectors.		
214				
215216	(4)	violat	ig of plan approvals shall not be construed to be a permit or approval of any tion of the provisions of these regulations. All structures shall be subject to	
217218219		Hous	inspection. The approval of the plans shall not prevent the Division of ing from requiring the correction of errors in the plans or the structure when in tion of these regulations.	
220		,101	2001 01 01000 108 01010101	
221	Secti	on 5: BUILI	DING PERMIT	
222				
223	The I	Division of Ho	ousing will issue a building permit upon approval of application and plans.	
224	The c	wner/develop	per may begin construction upon receipt of the approved plans and building	
225	permi	t.		
226				
227	Section	on 6: INTER	RIM CHANGES	
228				
229		A.	Interim changes shall be required where the owner/developer proposes a	
230			change in plumbing, heating, electrical, and/or fire life safety systems.	
231			Such changes shall become part of the approved plan unless the Division of	
232			Housing requires a total new design package. If determined a new design is	
233			necessary, the interim change shall be processed as a new application.	
234				
235		ъ		
236		В.	When amendments to these regulations require changes to be made to an	
237			approved plan, the Division of Housing shall notify the owner/developer of	
238			the requirement and shall allow them reasonable time to submit revised	
239			plans for approval.	
240	Coati	on 7. ON SI	TE INSPECTIONS	
241242	Secu	on 7: ON-81	1E INSPECTIONS	
242		٨	The Division of Housing shall conduct on-site inspections of all structures	
243		A.	that are constructed or renovated in areas of the state with no local building	
245			codes. All structures shall be inspected per the requirements of the	
246			applicable codes listed in Schedule "B".	
247			applicable codes fisted in schedule B.	
248	Section	on & EXPIR	RATION DATES	
249	Section	on o. man		
250		A.	Each plan approval shall remain in force and effect as outlined in the	
251		1 2.	applicable codes listed in Schedule "B"	
			I I	

Section 9:	POSTE	D STRU	UCTURES
	A.	Whenev	ver an inspection reveals that a structure has a life threatening
		violatio	on or is being constructed without Division of Housing approved
		plans, tl	he Division of Housing shall post such a structure with a Stop Work
		Order.	
	(1)	When	a structure is posted with a Stop Work Order, the Division of
	` /		Housing will notify the owner/developer that the structure contains a
			violation(s).
			``
		(a)	No work shall be continued on a structure until all violations are
		()	corrected.
		(b)	Within ten (10) working days, the owner/developer shall notify the
		` /	Division of Housing of the action taken to correct the
			violation(s).
		(c)	All structures that are corrected shall be reinspected to assure
		` '	compliance with the codes and regulations.
	(B)	Stop W	ork Orders shall be removed only by an authorized representative of
	` /	-	ision of Housing.
Section 10:	CERT	IFICAT	TE OF OCCUPANCY
A Certificate	e of Occ	cupancy s	shall be issued by the Division of Housing certifying that at the time
			built in compliance with the State Housing Board requirements.
Section 11:	REVO	CATIO	N OF BUILDING PERMIT
	A.	The Sta	te Housing Board may revoke a Building Permit after notice and
		hearing	pursuant to Section 24-4-104 & 24-4-105, C.R.S., whenever an
		_	developer has violated any provision of these regulations or when a
			was granted in error, on the basis of incorrect information supplied
		-	applicant.
		<i>J</i>	
	B.	Judicial	I review of Building Permit revocation actions shall be governed by
			24-4-106, C.R.S.
	Section 10: A Certificate of issuance	(B) Section 10: CERT A Certificate of Occoof issuance the struct Section 11: REVO A.	violation plans, to Order. (1) When (a) (b) (c) (B) Stop We the Diverse Section 10: CERTIFICAT A Certificate of Occupancy of issuance the structure was section 11: REVOCATION A. The State hearing owner/or permit by the assume the structure was section 11: Description of the structure was section 11: REVOCATION A. The State hearing owner/or permit by the assume the structure was section 11: Description of the structure was section 11: REVOCATION A. The State hearing owner/or permit by the assume the structure was section 11: Description of the structur

292			
293	Section 12: DENIAL OF BU	ILDING PERMIT	
294 295	A. The Divis	gion of Uousing may dany or	annlication for a Building Darmit if
293 296		in violation of Schedule "B"	n application for a Building Permit if
297	prans are	in violation of Schedule B	•
298	B. The Division	shall promptly notify the ap	plicant of the denial, revocation or
299	condition imp	posed. The applicant may, w	within 60 days following such action,
300			g Board. If requested, a hearing shall
301		-	5, C.R.S. Thereafter, the final
302		<u> </u>	be subject to judicial review in
303	accordance w	ith Section 24-4-106, C.R.S.	
304 305	Section 13: FEES		
306	Section 13. PLES		
307	Fees will be assessed for each	Multi-Family Structure in ac	ecordance with Schedule "A", which is
308	incorporated herein and made	•	
309	•		•
310	Section 14: IRREGULARIT	IES	
311			
312	•	_	nall not be justification for producing
313 314	any Unit without proper inspec	ctions and in violation of the	adopted construction codes.
314			
316			
317			
318			
319	ATTEST:		
320			
321			
322 323	Torono Duron Acting Dissets		Theo Gregory Chairmanan
323 324	Teresa Duran, Acting Director Colorado Division of Housing		Theo Gregory, Chairperson Colorado State Housing Board
325	Colorado División di Housing		Colorado State Housing Doutt
326			
327	Date		Date

328 329			SCHEDULE "A" FEE SCHEDULE			
330 331 332	Fees		cept inspection fees, are due in advance and abject to refund.	must accompany the application.		
333 334 335	1.	Plan checki	ng fees (maximum 3-sets): Finished space Unfinished space	\$0.25 per sq. ft. (\$160 min.) \$0.10 per sq. ft.		
336 337 338	2.	* *	tal plan check fee (revisions, duplicate sets e e: Fee for revisions to be calculated based or	, , , , , , , , , , , , , , , , , , , ,		
339 340 341	3.	Certificate of	of Occupancy (each separate structure):	\$100.00		
342 343 344 345	4.	Waiver of fees for Government Assisted Housing; with State Housing Board concurrence, the Division of Housing may waive plan review fees for units to be subsidized under local, state or federal housing programs for low-income households.				
346 347 348	5.	Inspection f	fees:			
349 350		A.	On-site inspection fee: trip .	\$230.00 per inspector per		
351 352 353 354 355 356 357 358		C.	Special inspection fee: In-State: \$50.00 per hour, per inspector pludodging, parking, car rental, etc. as allowed and travel. Out of-State: \$50.00 Hour/ per inspector pludging, parking, car rental, etc. as allowed and travel.	in state fiscal rules for per diem olus trip expenses of travel, food,		
359 360		D.	Red Tag fee:	\$250.00		

361		SCHEDULE "B"			
362					
363 364 365 366 367	The State Housing Board adopts the following nationally recognized codes as the "Colorado Construction Safety Code For On-Site Construction Of Motels, Hotels, And Multi-Family Dwellings In Those Areas Of The State Where No Such Standards Exist".				
368					
369	Factor	y-Built Housing Construction Code of the State of Colorado			
370 371	Shall b				
372	Shan t	C.			
373	1.	The International Building Code, 2006 Edition, published by the International Code			
374		Council, Inc.			
375	2.	The International Residential Code, 2006 Edition, published by the International Code			
376		Council, Inc.			
377	3.	The International Mechanical Code, 2006 Edition, published by the International Code			
378		Council, Inc.			
379	4.	The International Plumbing Code, 2006 Edition, published by the International Code			
380	~	Council, Inc.			
381	5.	The National Electric Code, 2008 Edition, published by the National Fire Protection			
382 383	6	Association, Inc. The International Fuel Gas Code, 2006 Edition, published by the International Code			
384	0.	Council, Inc.			
385	7	The International Energy Conservation Code, 2006 Edition, published by the			
386	, .	International Code Council, Inc. effective until June 30, 2010.			
387	8.	The International Energy Conservation Code, 2009 Edition, published by the			
388		International Code Council, Inc. effective July 1, 2010.			
389					
390	Transi	tion Period: Builders shall be permitted to use the construction codes in effect prior to the			
391	adoption of this resolution for a maximum of 90-days after this resolution takes effect.				

AMENDMENTS:

394 The following amendments by addition, deletion, revision and exceptions are made:

INTERNATIONAL BUILDING CODE:

Section 310, R-3, Add new sentence at the end:

A single building or structure where 5 or less adults sleep at any time (commercial worker housing) may comply with the International Residential Code as a dwelling provided there is no mixed occupancy and there is permanently affixed signage in the immediate vicinity of sleeping rooms that states "No more than 5-adults may sleep at any time in this building".

Section 901.5.1 Add the following Section:

Special inspector required. All fire protection systems required by this Chapter shall be inspected and approved by a special inspector. The inspector shall be an employee of the fire department having jurisdiction or another qualified individual with prior approval of the Colorado Division of Fire Safety. Inspections and approvals will be regulated under Chapter 17 of this Code.

Section 907, Amend title to: "Single and multiple station alarms" and add subsections:

907.2.10.5 Carbon monoxide alarms. In new construction, dwelling units within which fuel-fired appliances are installed or have an attached garage, shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area within 10 feet of the bedroom(s).

907.2.10.5.1 Alarm requirements. The required carbon monoxide alarms shall be clearly audible in all bedrooms over normal background noise levels with doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms

 907.2.10.6 Separate circuits prohibited. Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for Smoke and/or Carbon Monoxide alarms.

Section 1507.1.1, Ice Dam Membrane Required is amended to read:

Ice dam protection is required where stated throughout Section 1507 due to a history of ice forming along eaves in Colorado. Regardless of roof slope or material, when the snow load is above sixty five pounds per square foot (65lb./sq.ft.), roofing underlayment shall be two layers of Type 15 felt applied shingle fashion and solid mopped together with approved cementing material between the plies, or 40 mil listed self adhering roofing membrane and shall be installed extending from the eave up the roof to a point 8 feet 6 inches inside the exterior wall line of the building and shall extend continuously to a point 4 feet from any valley, cricket or similar construction junctions with roofs. The ice dam membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering.

Section 1608.2, Ground Snow Load is amended to read:

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445

Roof Snow Load (Pf) design criteria shall be in accordance with the local jurisdiction requirements. The minimum roof snow load shall be 30 PSF and the allowable increase for snow duration shall not be used when the snow load is above 65 PSF.

450 451 452

449

Section 1609.1.1. Add the Following:

453 454

Wind Load design criteria shall be in accordance with the local jurisdiction requirements. The minimum Wind load design criteria shall be 90 MPH, Exposure C, unless otherwise justified.

455 456 457

Section 2111.1.1. New Fireplaces – Add the following section:

458 459

Every new fireplace shall have permanently installed one of the following:

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468 469

- 1. Approved gas logs.
- 2. Other approved gas or alcohol specific appliances.
- An approved fireplace insert meeting the most stringent emission standards for wood stoves established under State statute and/or regulations promulgated by the State Air Quality Control Commission (AQCC) as of the time of installation of the fireplace; or
- A solid fuel burning device which is exempt from and not eligible for certification under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which has been tested to demonstrate its emission performance is in accordance with criteria and procedures not less stringent than those required by the U.S. EPA and/or AQCC for wood stoves manufactured after July 1, 1990.

470 471

472

473

474 INTERNATIONAL RESIDENTIAL CODE:

Section R105.2, Work exempt from permit. Building:

Item #1. Change 120 square feet to 200 square feet

TABLE R301.2(1) IS AMENDED TO READ:

				Subject to Dam	age From			ICE		
ROOF SNOW LOAD ¹	WIND SPEED (mph) ¹	SEISMIC DESIGN CATEGORY					WINTER DESIGN TEMP ²	BARRIER UNDERLAY MENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX ³
			WEATHER	FROST LINE DEPTH ^a	TERMITE	DECAY				
MIN. 30 psf	MIN. 90 mph, Exp. C	В	SEVERE	PER LOCAL	SLIGHT	SLIGHT	PER LOCAL	YES	PER LOCAL	PER LOCAL

⁽¹⁾The roof snow load and wind speed shall be in accordance with the local jurisdiction requirements and shall not be less than the minimums stated. The allowable increase for snow duration shall not be used when the snow load is above 65 PSF.

(2) See Attachment A and verify with local jurisdiction..

⁽³⁾See the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32° Fahrenheit)" at www.ncdc.noaa.gov/fpsf.html.

Table R301.5 - Live Loads

...add footnote (j) to Decks, Exterior balconies, Fire escapes:

 (i)When the snow load is above 65 psf, the minimum uniformly distributed live loads for exterior balconies, decks and fire escapes shall be as required for roof snow loads.

Section 313, Amend title to: "Alarms" and add subsections:

R313.1.1 Carbon monoxide alarms. In new construction, dwelling units within which fuel-fired appliances are installed or have an attached garage, shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area within 10 feet of the bedroom(s).

R313.1.2 Alarm requirements. The required carbon monoxide alarms shall be clearly audible in all bedrooms over normal background noise levels with doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

UL 2034 2008 Standard for Single and Multiple Station Carbon Monoxide Alarms

R313.2 Add new sentence at the very end:

Smoke and/or Carbon Monoxide alarms shall not be installed on a circuit dedicated only for Smoke and/or Carbon Monoxide alarms.

Section R802.10 Wood trusses.

...add new section:

R802.10.6 Marking. Each truss shall be legibly branded, marked, or otherwise have permanently affixed thereto the truss identification as shown on the truss design drawing located within two (2) feet of the peak of the truss on the face of the top chord.

Section R905.1 – Roof Covering Application

...add subsection:

R905.1.1 Ice dam membrane required. Ice dam protection is required, where stated throughout Section R905, due to a history of ice forming along eaves in Colorado. An ice dam protection underlayment that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall extend from the eave's edge to a point at least 24 inches inside the exterior wall line of the building. For snow loads above 65 psf, the ice dam membrane shall be extended from the eave to a point 8 feet 6 inches inside the exterior wall line, and shall extend continuously to a point 4 feet from any valley, cricket or similar construction junction with roofs. The ice dam membrane shall extend up vertical construction junctions such as dormer walls a minimum of twelve (12) inches prior to the installation of flashing and roof covering.

Section R1004.4, G2406.2 exception 3 and 4, G2425.8 #7, G2445; Delete all and add:

Unvented fuel fired room heaters are prohibited.

549	Section R1004.5 – Fireplaces
550	
551	add:
552	
553	Every new fireplace shall have permanently installed one of the following:
554	
555	1. Approved gas logs;
556	
557	2. Other approved gas or alcohol specific appliances;
558	
559	3. An approved fireplace insert meeting the most stringent emission standards for wood
560	stoves established under State statute and/or regulations promulgated by the State Air
561	Quality Control Commission (AQCC) at the time of installation of the fireplace; or
562	
563	4. A solid fuel burning device which is exempt form and not eligible for certification
564	under U.S. Environmental Agency (U.S. EPA) regulations for wood stoves but which
565	has been tested to demonstrate its emission performance is in accordance with criteria
566	and procedures not less stringent than those required by the U.S. EPA and/or AQCC for
567	wood stoves manufactured after July 1, 1990.
568	
569	Chapter 11 – ENERGY EFFICIENCY
570	
571	Replacement Date:
572	
573	On July 1, 2010 the entire chapter is to be deleted and replaced with Chapter 11 of the 2009
574	International Residential Code.
575	
576	add new sentence:
577	
578	N1101.1 Scope. An approved "Zero-Energy Building" is exempt from the provisions of this
579	Chapter 11.
580	
581	Section M2001.1 - Installation
582	
583	is amended to add the following sentence:
584	
585	All rooms or spaces containing boilers shall be provided with a floor drain and trap primer.
586	

588589 Section G2417.4.1 Test pressure

...is amended as follows:

The test pressure to be used shall be not less than one and one half times the proposed maximum working pressure, but not less than 10 psig (69 kPa gauge), irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

Electrical Sections

Delete Chapters 33 through 42.

INTERNATIONAL FUEL GAS CODE:

Section 303.3 Prohibited locations.

...Add Item:

Number 6. LPG appliances. LPG appliances shall not be installed in a pit, basement or crawl space where unburned fuel may accumulate unless an approved sensing device is installed. Delete Exception Numbers 3 and 4.

Section 406.4.1 Test pressure.

...amend to read:

The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, but not less than 10 psig (20 kPa gauge), irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. Welded gas and medium pressure piping (14 inch water column or greater) shall be tested at a minimum of 60 psi.

628 629	Section 601.1. Scope. Add the following sentence:
630 631 632	Approved gas logs shall be installed in new solid fuel burning fireplaces when required by Sections 2111.1.1 of the International Building Code amended effective January 1 2004.
633 634	Section 621 Unvented room heaters. Amend to read:
635 636 637	Unvented fuel fired room heaters are prohibited.
638 639	INTERNATIONAL PLUMBING CODE:
640 641 642 643	The following Appendix Chapters to the International Plumbing Code, 2006 Edition, are hereby adopted.
644 645	Appendix Chapter D – Degree Day and Design Temperatures for Cities in the United States.
646 647	Appendix Chapter E – Sizing of water piping systems.
648 649	No other appendix chapters are adopted.
650	INTERNATIONAL MECHANICAL CODE:
651 652	Add the following Sections –
653 654 655	Section 303.3.1 LPG appliance.
656 657 658 659	LPG appliances shall not be installed in a pit, basement or crawl space where unburned fuel may accumulate unless an approved sensing device is installed in conjunction with an automatic shut-off valve at the LPG tank.
660 661	Section 903.1 General. Add sentence:
662 663 664 665 666 667	Every new installation of a solid fuel-burning, vented decorative appliance or room heater shall meet the most stringent emission standards for woodstoves established unde State statute and/or regulations promulgated by the State Air Quality Contro Commission as of the time of installation of the appliance for room heater. (Effective January 1, 1991 – CC90-617.)
668	

674		
675		Section 101.2.1 Exempt Buildings.
676		
677		add exemption:
678		
679		101.2.1.3 Zero-Energy Buildings. Zero energy buildings are exempt from the
680		provisions of the International Energy Conservation Code.
681		
682		Section 202 – Definitions
683		
684		add definition:
685		
686		ZERO-ENERGY BUILDING. A building with zero net energy consumption and zero
687		carbon emissions annually as certified by an approved annual energy use analysis.
688		
689		
690	NAT	IONAL ELECTRIC CODE:
691		
692		following amendments by addition, deletion, revision and exceptions are made to the
693	Natio	nal Electrical Code, 2008 Edition, for use with all Factory Built units:
694		
695	1.	Article 406.8(C), (1) Shower or Bathroom space. Receptacle outlet shall not be installed
696		in or within 30 inch (762 mm) of a shower or bathtub base.
697		
698	2.	Article 545, Manufactured Buildings, is amended to include: 545.14. Testing.
699		
700		(A) Dielectric Strength Test. The wiring of each factory built unit shall be subjected to
701		a 1-minute, 900-volt AC or 1273-volt DC dielectric strength test (with all switches
702		closed) between live parts (including neutral) and the ground. Alternatively, the
703		test shall be permitted to be performed at 1,080-volts AC or 1527-volts DC for 1
704		second. This test shall be performed after branch circuits are complete and after
705		wiring devices are installed and wiring properly terminated.
706		Exception 1: Listed fixtures or appliances shall not be required to withstand the
707		dielectric strength test.
708		Exception 2: Units wired in Electrical Metallic Tubing or Rigid Metal Conduit.
709		

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Section 903.3...is amended to read as follows:

INTERNATIONAL ENERGY CONSERVATION CODE

Unvented gas log heaters are prohibited.

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710 711	(D)	shall be subjected to:
712		
713		(1) An electrical continuity test to ensure that all exposed electrically conductive
714		parts are properly bonded;
715		
716		(2) An electrical operational test to demonstrate that all equipment, except water
717		heaters and electric furnaces, is connected and in working order; and
718		
719		(3) Electrical polarity checks of permanently wired equipment and receptacle
720		outlets to determine that connections have been properly made.
721		
722		These tests shall be performed after branch circuits are complete and after wiring
723		devices are installed and wiring properly terminated.
724		
725		
726	3. Arti	ele 320.23(A). Add a new sentence at the end:
727		
728	Substantial	guard strips shall be provided to protect wiring within three (3) feet of the marriage
729	line where t	he attic is exposed and the roof is completed on-site, such as a hinged roof. See
730	Article 320.	23(A)

ATTACHMENT "A" DEGREE DAYS AND DESIGN TEMPERATURES FOR COLORADO CITIES AND TOWNS

736			Heating	Design Temperatures°F			Elevation
737	Locat	ion	Degree Days	Winter	Summer		(feet)
738			- B	971/2%	DB 2½%	WB 2½%	above sea
739	1	Alamosa	8749	-16	82	61	7546
740	2	Aspen	9922	-1	81	59	7928
741	3	Boulder	5554	2*	91	63	5385
742	4	Buena Vista	8003	-1	83	58	7954
743	5	Burlington	6320	2	95	70	4165
744	6	Canon City	4987	8	90	64	5343
745	7	Cheyenne Wells	5925	1	97	70	4250
746	8	Colorado Springs	6415	2	88	62	6012
747	9	Cortez	6667	5	88	63	6177
748	10	Craig	8403	-14	86	61	6280
749	11	Creede	11375	-18	80	58	8842
750	12	Del Norte	7980	-4	81	60	7884
751	13	Delta	5927	6	95	62	4961
752	14	Denver	6020	1	91	63	5283
753	15	Dillon	11218	-16	77	58	9065
754	16	Dove Creek	7401	-6	86	63	6843
755	17	Durango	6911	4	87	63	6550
756	18	Eagle	8106	-11	87	62	6600
757 758	19	Estes Park	7944	-7	79	58	7525

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky

Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals

Handbook (See 2006 IPC appendix D).

763 Degrees North Latitude may be obtained at www.ncdc.noaa.gov/fpsf.html

* Per Local. 8° per 1985 ASHRAE

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DEGREE DAYS AND DESIGN TEMPERATURES FOR COLORADO CITIES AND TOWNS

		-			_, , ,		
767							
768			Heating	Design Temperatures°F			Elevation
769		Location	Degree Days	Winter	Sum	mer	(feet)
770				971/2%	DB 2½%	WB 2½%	above sea
771	20	Ft. Collins	6368	-4	91	63	5001
772	21	Ft. Morgan	6460	-5	92	65	4321
773	22	Fraser	9777	-22	76	58	8560
774	23	Glenwood Springs	7313	5	91	63	5823
775	24	Granby	9316	-			7935
776	25	Grand Junction	5548	7	94	63	4586
777	26	Greeley	6306	-5	94	64	4648
778	27	Gunnison	10516	-17	83	59	7664
779	28	Holyoke	6583	-2	97	69	3746
780	29	Idaho Springs	8094	0	81	59	7555
781	30	Julesburg	6447	-3	98	69	3469
782	31	Kit Carson	6372	-1	98	68	4284
783	32	Kremmling	10095	-19	85	59	7359
784	33	La Junta	5263	3	98	70	4066
785	34	Lamar	5414	0	98	71	3635
786	35	Last Chance		-2	92	65	4790
787	36	Leadville	11500	-4	81	55	10,152
788	37	Limon	6961	0	91	65	5366
789	38	Longmont	6443	-2	91	64	4950
790	39	Meeker	8658	-6	87	61	6347
791	40	Montrose	6383	7	91	61	5830
792	41	Ouray	7639	7	83	59	4695

Data taken from Department of Energy (Rescheck 4.1.3), Climate Data published by Rocky Mountain Chapter ASHRAE, First Edition-Centennial 1976, 1985 ASHRAE Fundamentals Handbook (See 2006 IPC appendix D).

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